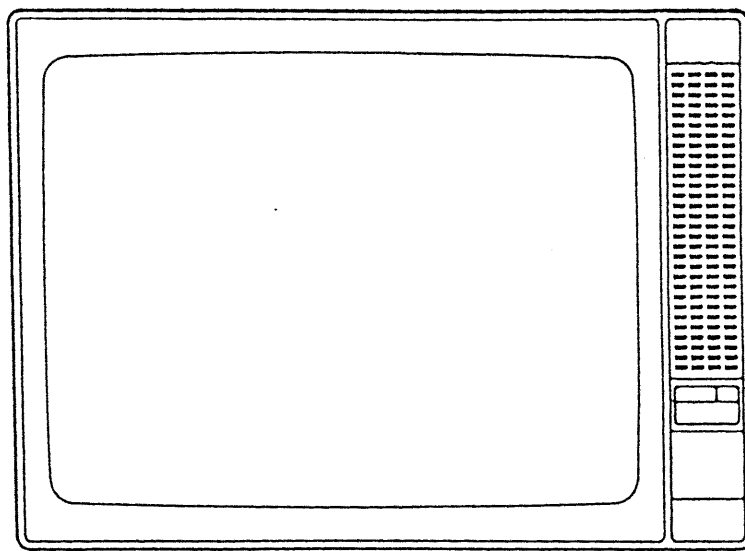


SELECO spa

Service manual for CTV with BS 800 chassis



21 SM360.1UK

24 SM362.1UK

24 SM567.1UK

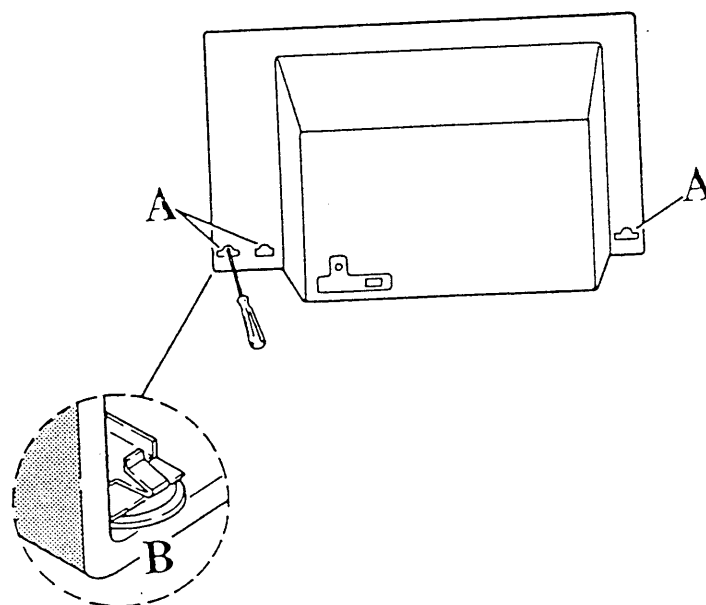
28 SM362.1UK + TXT = 28SM362.1UK

GENERAL FEATURES

CHASSIS	- Series BS 800 "cold" modular type electrically separated from mains
PICTURE TUBE	- 21" 451E4S00X01 24" 459E4S00X01 28" 456E4S00X01 (in line, selfconverging, high brightness, quick start.)
POWER SUPPLY	- 240V ac \pm 10% 50/60 Hz.
POWER ABSORBED	- 60 W
MUSICAL POWER	- 10W
LOUDSPEAKER	- 8 Ohm
EHT	- 24,5 KV
MAX BEAM CURRENT	- 1.1. mA
ANTENNA INPUT	- 75 Ohm (DIN 45325-2)
TUNER	- Varicap type suitable for cable TV reception
TUNING SYSTEM	- Electronic, frequency synthesis
PROGRAM PRESELECTION	- 30 storable programs
EXTERNAL OUTPUT JACKS	- Jack for headphone set - Peritelevision (SCART) connection type EN 050049
RECEPTION STANDARD	- C.C.I.R. PAL B/G
DIMENSIONS	- 21" - 600 x 450 x 410 24" - 630 x 510 x 430 28" - 720 x 510 x 430
WEIGHT	- 21" - 23 Kg. 24" - 32 Kg. 28" - 35 Kg.

ACCESS TO INTERNAL COMPONENTS

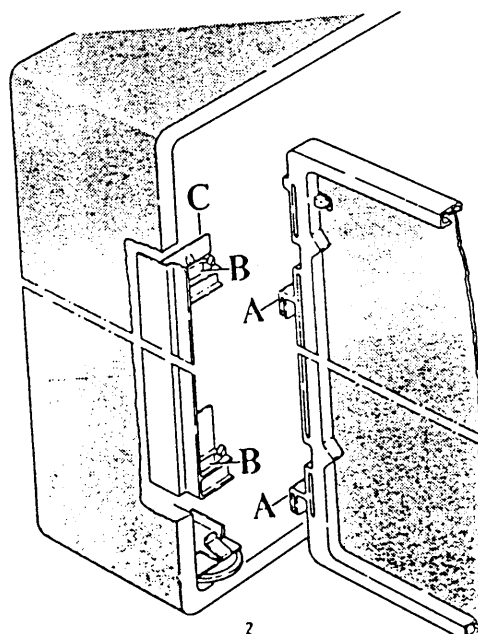
To remove back panel: 1. Insert a blade type screwdriver into slots "A";
2. Push down retaining lug "B";
3. Release bottom part and remove panel.
Pull the left hand side of the back panel and remove it.



VERTICAL POSITIONING OF CHASSIS

Vertical positioning of chassis enables easy access to the copper and components sides. Positioning, as shown in figure below, is carried out as follows:

- Remove chassis from its seating taking care not to unduly pull wiring.
- Rotate the chassis and insert guides A into appropriate slots B.
- To remove the chassis from the servicing position, turn lever C towards the inside.



MAIN COMPONENTS

BS 800 - Multifunctional chassis including following functional units:

- a) IF amplifier, horizontal and vertical oscillator, syncro separator (TDA 4502/A)
- b) Vertical deflection (TDA 3564)
- c) Horizontal deflection (T301 + T305)
- d) Switch - mode power supply (TDA 4601/D - T 401)
- e) 12,6V switching circuit (T 402 + T 405)
- f) Audio output circuit (TDA 8190)
- g) Luminance and chrominance circuits (TDA 3301/B)
- h) Tuning circuit (ZE 8700/P - UAA 2001/P - MCM 2802P)

PCB PLUGGED ON CHASSIS

- BS 712 - CATV RF unit p.c.b. (38,9 MHz video IF; 33,4 MHz audio IF)
- BS 711 - Video switch p.c.b.
- BS 725 - Vertical blanking generator p.c.b.
- BS 718 - E/W pin - cushion correction p.c.b.
- BS 679 - Teletext decoder p.c.b.

PCBs OFF CHASSIS

- BS 702 - Remote control receiver p.c.b.
- BS 701 - Frontal controls p.c.b.
- BS 720 - CRT p.c.b. with video output stages
- BS 706 - Remote control transmitter p.c.b.

ICs USED AND RELEVANT FUNCTIONS

<u>Schematic Ref</u>	<u>Type</u>	<u>P.c.b.</u>	<u>Electronic Functions</u>
CI 101	TDA 3301/B	BS 800	PAL decoder
CI 203	ZE 8700/P	BS 800	8 bit microprocessor with PLL logic
CI 204	MC144111/P	BS 800	D/A converter
CI 205	UAA 2001/P	BS 800	Synthesizer amplifier & driver
CI 206	MCM 2802/P	BS 800	Non volatile memory
CI 401	TDA 4601/D	BS 800	Switch mode oscillator and control
CI 501	TDA 4502/A	BS 800	IF amplifier, horizontal and vertical oscillator, sinchro separator, AGC, muting, video amplifier and video switch.
CI 601	TDA 3653	BS 800	Vertical output amplifier
CI 701	TDA 8190	BS 800	Audio amplifier
CI 201	UAA 2022/P	BS 802	Display driver
CI 202	TDA 3048	BS 702	Remote control signal receiver and amplifier
CI 550	4066	BS 711	Video switch
CI 250	4001	BS 800	TV/VTR switch
CI 1	SAAS230	BS679	Video processor
CI 2	ZE 8500	BS679.	8-bit microprocessor
CI 3	SAAS240/A	BS679	Euro CCT
CI 4	74HC74	BS679	Mbus interface
CI 5	T74LS132B	BS679	Four NAND
CI 6	HM6116P4	BS679	2Kbyte static RAM

TRANSISTOR USED AND RELEVANT FUNCTIONS

<u>Schematic Ref.</u>	<u>Type</u>	<u>P.c.b.</u>	<u>Electronic Functions</u>
T 201	BC 548/B	BS 800	Automatic scanning stop driver
T 202	BC 558/B	BS 800	Band III current amplifier
T 203	BC 548/B	BS 800	Band III current amplifier
T 204	BC 558/B	BS 800	24 V stabilizer
T 301	BC 558/B	BS 800	Switch-on horizontal driver

T 302	BC 327/25	BS 800	Switch-on horizontal driver
T 303	BC 548/B	BS 800	Switch-off horizontal driver
T 304	BC 635	BS 800	Switch-off horizontal driver
T 305	BU 508/D	BS 800	Horizontal output amplifier
T 401	BU 508/A	BS 800	Switch-mode transistor switch
T 402	BC 548/B	BS 800	Stand-by switch
T 403	BC 548/B	BS 800	12.6 V stabilizer
T 404	BD 434	BS 800	12.6 V stabilizer
T 405	BC 548/B	BS 800	12.6 V stabilizer
T 501	BC 548/B	BS 800	Emitter follower
T 502	BF 959	BS 800	ASW driver
T 503	BC 548/B	BS 800	Emitter follower
T 504	BC 548/B	BS 800	VTR time constant insertion
T 505	BC 548/B	BS 800	Vertical amplitude stabilizer
T 701	BC 548/B	BS 800	Audio switch
T 702	BC 558/B	BS 800	Audio switch
T 703	BC 548/B	BS 800	Muting insertion
T 135	BC 548/B	BS 725	Beam current limiter
T 136	BC 558/B	BS 725	Beam current limiter
T 137	BC 548/B	BS 725	Vertical blanking shaper
T 138	BC 558/B	BS 725	Vertical blanking shaper
T 150	BC 558/B	BS 720	Output stages bias
T 151	BC 548/B	BS 720	Emitter follower
T 152	BF 758	BS 720	Active load output amplifier (red)
T 153	BC 548/B	BS 720	Emitter follower
T 154	BF 758	BS 720	Active load output amplifier (green)
T 155	BC 548/B	BS 720	Emitter follower
T 156	BF 758	BS 720	Active load output amplifier (blue)
T 157	BF 393	BS 720	Active load output (red)
T 158	BF 493S	BS 720	Beam current measuring (red)
T 159	BF 393	BS 720	Active load output (green)
T 160	BF 493S	BS 720	Beam current measuring (green)
T 161	BF 393	BS 720	Active load output (blue)
T 162	BF 493S	BS 720	Beam current measuring (blue)
T 350	BC 548/B	BS 718	Integrator transistor
T 351	BC 558/B	BS 718	Comparator transistor
T 352	BC 558/B	BS 718	Vertical pulse clipper
T 353	BC 337/B	BS 718	E/W pin-cushion modulator
T 550	BC 548/B	BS 711	Emitter follower
T 1	RF 996 S	BS 712/713	UHF amplifier
T 2	BF 569	BS 712/713	UHF oscillator converter
T 1	BF 994 S	BS 712/690	VHF amplifier
T 2	BF 994 S	BS 712/690	VHF oscillator
T 3	BF 606 A	BS 712/690	I.F. amplifier
T 2	BC548B	BS679	Video processor
T 3	BC558B	BS679	Video processor
T 4	BC548B	BS679	Switch transistor
T 5	BC548B	BS679	Switch transistor
T 6	BC548B	BS679	5 V enabling
T 7	BC369	BS679	5 V enabling
T 10	BC548B	BS679	Emitter follower (blue)
T 11	BC548B	BS679	Emitter follower (green)
T 12	BC548B	BS679	Emitter follower (red)
T 13	BC548B	BS679	Emitter follower (blanking)

SAFETY NOTE

- Do not accidentally touch that part of chassis supply not electrically separated from mains.
- Do not install, remove, or handle the picture tube unless shatter-proof goggles are worn and install, remove or handle only after having kept away people not so equipped.
- Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the instrument by the manufacturer has become defective or inadvertently defected during servicing.
- Therefore following checks are recommended:
 - Insulation Resistance should not be less than 2M Ohm at 500 V DC between the mains poles and any accessible metal parts.
 - High voltage High voltage should always be kept at rated value indicated on the receiver's back panel, no higher. Operating at higher voltage may cause failure of the picture tube or of high voltage supply. Furthermore, in no case whatsoever must the electrical circuit providing the EHT be altered so as to prevent wrong voltage values from causing ionizing radiations above those allowed by International Standards.

ELECTRICAL COMPONENTS
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			21 SM360.1UK	24 SM362.1UK	24 SM567.1UK	28 SM362.1UK
BS800.1	804104000	CHASSIS 110' 3W MONO 21"	*			
BS800.1	804096000	CHASSIS 110' 3W MONO 24"-28"		*	*	*
BS711.2	804019000	INTEGRATION TUNER P.C.B.	*	*	*	*
BS712.1	804017000	TUNER RF/CATV	*	*	*	*
BS689.1	803990001	STRIP UHF				
BS690.1	803991001	STRIP VHF/CATV				
BS679.2	803972000	TELETEXT P.C.B.			*	
BS725.0	804065002	VERTICAL P.C.B.	*	*	*	*
BS720.1	804034100	PICTURE TUBE SOCKET P.C.B.	*	*	*	*
BS721.1	804035000	POWER SUPPLY + SWITCH P.C.B.	*	*	*	*
BS718.1	804031000	E-W PIN CUSHION ADJUSTMENT P.C.B.	*	*	*	*
BS706.0	804001000	TRANSMITTER P.C.B.	*	*	*	*
OTHER COMPONENTS =====						
	732058000	LOUDSPEAKER 16 OHM 6W	*	*	*	*
	712060000	PICTURE TUBE 21" FULL A51EAS00X01	*			
	712052000	PICTURE TUBE 24" FULL A59EAS00X01		*	*	
	712051000	PICTURE TUBE 28" FULL A66EAS00X01				*
	692026000	SUPPLY CABLE	*	*	*	*
	930702116	9V BATTERY (FOR TRANSMITTER)	*	*	*	*
TA654	930702036	DEGAUSSING COIL	*			
	804036000	DEGAUSSING COIL		*	*	
	804043000	DEGAUSSING COIL				*
	482923000	CLIPS FOR EHT CABLE	*	*	*	*
	692028000	EHT CABLE	*	*	*	*
	692029000	EHT CABLE	*	*	*	*
T301	804000000	TRANSMITTER (2030ME)	*	*	*	*

804104000 = 804096000 - R316/A
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804096000

BS800.1

C101	930070828	1uF	100V
C101/A	930071334	100pF	50V
C101/B	930071288	47pF	50V
C102	930073747	100uF	25V
C103	930071288	47pF	50V
C103/A	930073251	1nF	50V
C103/B	930071816	1nF	50V
C104	930071158	22pF	50V
C104/A	930073028	12pF	63V
C105	930071638	22nF	16V
C106	930074048	220nF	63V
C107	930070720	470pF	50V
C108	930073468	470pF	63V
C108/A	930071638	22nF	16V
C110	930071636	10nF	25V
C111	930073251	1nF	50V
C112	930073693	15pF	50V
C113	930074044	100nF	63V
C114	930073972	2.2uF	63V
C115	930071816	1nF	50V
C116	930074044	100nF	63V
C117	930070828	1uF	100V
C118	930070824	220uF	16V
C119	930074044	100nF	63V
C119/A	930070716	180pF	50V
C120/A	522457000	82pF	50V
C121	930074044	100nF	63V
C122	930071638	22nF	16V
C122/A	930071638	22nF	16V
C123	930074044	100nF	63V
C124	930074044	100nF	63V
C125	930074042	47nF	63V
C126	930074042	47nF	63V
C201	930071636	10nF	25V
C201/A	930074022	47nF	50V
C202	930071636	10nF	25V
C202/A	930073745	100uF	35V
C203	930071451	100uF	25V
C203/A	930074044	100nF	63V
C204	930071636	10nF	25V
C205/A	930070652	4.7nF	50V
C205/B	532291000	12nF	63V
C206	930074052	470nF	63V
C207	930071808	27pF	50V
C208	930071158	22pF	50V
C209	930073354	10uF	35V
C210	930073747	100uF	25V
C212	930073728	220uF	16V
C213	930071638	22nF	16V
C214	532374000	68nF	63V
C215	930074044	100nF	63V
C216	930072127	1uF	50V
C217	930073663	4.7uF	63V
C218	930071451	100uF	25V
C219	930071636	10nF	25V
C220	930071638	22nF	16V
C221	930070864	47uF	35V
C222	930071638	22nF	16V
C223	930071638	22nF	16V
C224	930074042	47nF	63V
C225	930071636	10nF	25V
C226	930071638	22nF	16V
C227	930071638	22nF	16V
C227/A	930073736	10uF	35V
C301	930073347	100nF	160V
C303	930072962	680nF	250V
C304	930073693	560nF	250V
C306	930073070	2.2uF	350V
C307	930072844	150nF	100V
C308	930071820	10uF	35V
C309	930070822	4.7uF	100V
C310	930070694	470uF	50V
C311	930073161	1uF	100V
C312	930073161	1uF	100V
C313	532385000	820nF	250V
C314	930073145	27nF	630V
C315	532384000	12nF	2KV
C316	930073326	33nF	400V
C317	930073747	100uF	25V

C403	930072138	2.2nF	400V
C404	930072138	2.2nF	400V
C406	930072144	150nF	250V
C407	930074038	1nF	1KV
C408	930074038	1nF	1KV
C409	930074038	1nF	1KV
C410	930074038	1nF	1KV
C411	512199000	150uF	385V
C412	930072198	56pF	50V
C413	930071451	100uF	25V
C414	930072233	8.2nF	250V
C415	930073745	100uF	35V
C416	930073747	100uF	25V
C417	930070720	470pF	50V
C418	930070828	1uF	100V
C419	532376000	6.8nF	400V
C420	532377000	2.2nF	2KV
C422	512201000	100uF	25V
C423	930073071	47uF	250V
C424	930073167	4.7uF	63V
C426	930074044	100nF	63V
C427	930071451	100uF	25V
C428	930073747	100uF	25V
C429	930071451	100uF	25V
C430	930073427	100uF	35V
C431	516013000	220uF	25V
C501	532380000	47nF	250V
C501/A	930073972	2.2uF	63V
C502	930071288	47pF	50V
C503	930071636	10nF	25V
C504	930071636	10nF	25V
C505	512115000	22uF	16V
C507	930071638	22nF	16V
C508	522169000	8.2pF	63V
C508/A	522193000	33pF	50V
C509	930071638	22nF	16V
C501	930073354	10uF	35V
C513	930070822	4.7uF	100V
C514	930070367	100uF	16V
C515	522487000	220pF	50V
C516	532374000	2.2nF	63V
C517	532274000	68nF	63V
C518	930074048	220nF	63V
C518/A	930071288	47pF	50V
C520	930074052	470nF	63V
C521	930071638	22nF	16V
C523	930073663	4.7uF	63V
C524	930074044	100nF	63V
C524/A	930073980	10nF	630V
C525	930074004	4.7nF	50V
C526	930071638	22nF	16V
C527	930071638	22nF	16V
C603	930073745	100uF	35V
C604	930070650	2.2nF	50V
C605	930073601	22uF	35V
C607	930073347	100nF	160V
C609	930073303	220uF	25V
C610	930073427	100uF	35V
C611	930071638	22nF	16V
C701	930073821	18pF	50V
C702	930070828	1uF	100V
C703	930074042	47nF	63V
C704	930074044	100nF	63V
C705	930072294	10nF	63V
C706	930070828	1uF	100V
C708	930070828	1uF	100V
C709	930073161	1uF	100V
C710	930070828	1uF	100V
C711	930070828	1uF	100V
C712	930072348	8.2pF	50V
C713	930073161	1uF	100V
C715	930071638	22nF	16V
C716	930074048	220nF	63V
C717	930073427	100uF	35V
C718	930074009	470uF	35V
C719	930071636	10nF	25V
R103	930070342	4.7	0.3W
R104	930070081	18	K 1/4W
R105/A	930070141	33	K 1/4W
R110	930070129	680	1/4W
R113/A	930070137	10	K 1/4W
R116	930070133	2.7	K 1/4W
R117/A	930070498	4.7	K 1/4W
R121	930070080	15	K 1/4W
R124	930070207	18	K 1/4W
R125	930070207	18	K 1/4W
R126	930070428	100	1/4W

R126/A	930070099	100	K 1/4W
R133	930070135	6.8	K 1/4W
R134	930070135	6.8	K 1/4W
R201	930070209	15	K 1/4W
R203	930070008	12	K 0.4W
R203/A	930070008	12	K 0.4W
R205	930070069	5.6	K 1/4W
R206	930070137	10	K 1/4W
R207	930070137	10	K 1/4W
R209	930070137	10	K 1/4W
R211	930070074	10	K 1/4W
R212	930070498	4.7	K 1/4W
R217	930070074	10	K 1/4W
R220	930070091	47	K 1/4W
R222	930070498	4.7	K 1/4W
R223	930070447	680	1/2W
R223/A	930070137	10	K 1/4W
R224	930070083	22	K 1/4W
R225	930070137	10	K 1/4W
R226	930070137	10	K 1/4W
R227	930070074	10	K 1/4W
R228	930070137	10	K 1/4W
R229	930070139	22	K 1/4W
R230	930070207	18	K 1/4W
R233	930070451	1	K 1/2W
R234	930070139	22	K 1/4W
R236	930070139	22	K 1/4W
R237	930070451	1	K 1/2W
R238	930070998	2.7	K 1W
R239	930070342	4.7	0.3W
R302	930071244	180	0.3W
R303	930070004	6.8	2W
R304	543615000	180	1/2W
R305	930070419	47	17W
R309	543617000	5.6	1W
R310	930070839	1.5	K 1W
R310	930070063	3.3	K 1/4W
R317	930070238	0.33	0.4W
R318	930070121	0.10	0.4W
R320	930070129	680	1/4W
R321	930071447	6.8	K 4W
R322	543133000	1	4W
R323	930070141	33	K 1/4W
R401	543618000	2.7	K 0.5W
R401/A	930070096	4.7	11W
R403	930070125	0.82	0.4W
R404	930071449	270	K 2W
R405	930070209	15	K 1/4W
R408	930070137	10	K 1/4W
R410	543137000	390	2W
R411	930071224	10	2W
R412	930071086	10	M 1W
R413	930070121	0.10	0.4W
R414	930070205	3.3	K 1/4W
R417	930070314	0.10	0.5W
R418	543124000	10	7W
R419	930070224	56	K 2W
R421	930070137	10	K 1/4W
R423	930070085	1.8	K 0.4W
R424	930070225	1.5	K 0.4W
R501	930070205	3.3	K 1/4W
R502	930070137	10	K 1/4W
R510	930070209	15	K 1/4W
R512/A	930070141	33	K 1/4W
R515	930070229	47	0.3W
R522	930070055	1.5	K 1/4W
R525	930070506	220	K 1/4W
R528	930070139	22	K 1/4W
R529	930070139	22	K 1/4W
R530	930070205	3.3	K 1/4W
R530/A	930079552	1	K 1/4W
R542	930070063	3.3	K 1/4W
R603	930070458	2.2	K 1/4W
R608	930070209	15	K 1/4W
R609/A	930070439	330	1/2W
R612	930070113	1.5	0.7W
R613	930070441	390	1/2W
R615	930070447	680	1/2W

CONTINUATION =====>>>

R616 930071005 4.7 2W
R617 930070451 1 K 1/2W
R704 930070209 15 K 1/4W
R710 930070091 47 K 1/4W
R712 930070205 3.3 K 1/4W
R713 930070209 15 K 1/4W
R715 930070063 3.3 K 1/4W
R717 930070013 2.2 0.4W
R718 930070094 1 1W
R719 930070139 22 K 1/4W
R720 930070139 22 K 1/4W
R724 930070055 1.5 K 1/4W
PTC401 543613000 PTC 5K 265V
P101 930072519 1 K 0.1W
P401 930072547 2.2 K 0.1W
P501 930072531 10 K 0.1W
P502 930072541 47 K 0.1W
P503 930072541 47 K 0.1W
P601 552178000 100 0.1W
P602 930072519 1 K 0.1W
D101 930074457 1N 4148
D102 930074457 1N 4148
D103 930074457 1N 4148
D201 930074793 1N 4001
D202 582149000 1N 4148 RAD.
D203 930074457 1N 4148
D204 930074457 1N 4148
D303 930074085 BA 157
D304 930074085 BA 157
D305 930074085 BA 157
D306 930074085 BA 157
D307 930074085 BA 157
D308 930070797 BY 228
D309 930070982 BY 299
D310 930074457 1N 4148
D401 930074478 1N 4006
D402 930074478 1N 4006
D403 930074478 1N 4006
D404 930074478 1N 4006
D405 930074478 1N 4001
D408 930074085 BA 157
D409 930074085 BA 157
D410 582179000 BYV95C
D411 582186000 BYW95C
D412 930074457 1N 4148
D413 582179000 BYV95C48
D502 930074457 1N 4148
D503 930074793 1N 4001
D507 930074793 1N 4001
D601 930074793 1N 4001
D701 930074457 1N 4148
DZ201 930070796 ZTK33A
DZ202 930071211 ZPD24
DZ301 930074324 ZPD12
FD201 930070986 PHOTODIODE
T201 930071228 BC 548B
T202 930071230 BC 558B
T203 930071228 BC 548B
T204 930071230 BC 558B
T304 572200000 BC 639
T305 930070846 BU 508A
T401 930070846 BU 508A
T402 930071228 BC 548B
T403 930071228 BC 548B
T404 572235000 BD 434
T405 930071228 BC 548B
T501 930071228 BC 548B
T502 572236000 BF 959
T503 930071228 BC 548B
T504 930071228 BC 548B
T505 930071228 BC 548B
T701 930071228 BC 548B
T702 930071230 BC 558B
T703 930071228 BC 548B
CI101 592434000 TDA 3301/B
CI201 592435000 UAA 2022
CI202 930070878 TDA 3048
CI203 592437000 ZE 8700
CI204 930072265 MC144111P
CI205 592436000 UAA 2001
CI206 930070918 MCM 2802P
CI401 592412000 TDA 4601/D
CI402 930072256 MC 7805CT
CI501 592433000 TDA 4502A-N1
CI601 592445000 TDA 3654
CI701 592432000 TDA 8190
TR301 632047000 LINE TRANSF.
TR302 930070206 HORIZONTAL DR.

TR402 622090000 MAINS TRANSF.
L105 930071278 COIL 04.4 MHz
L301 930071316 COIL DEFLEX.
L302 612527000 COIL 1.6 MH
L502 930072686 COIL 5.5 MHz
L504 612511000 COIL 38.9 MHz
L701 612484000 COIL 12 UH
CH101 612524000 COIL 15 UH
CH102 612524000 COIL 15 UH
CH103 930071276 COIL 10 UH
CH201 930072106 COIL 22 UH
CH202 612523000 COIL 2.16 MH
CH302 930070812 COIL 33 UH
CH303 930070812 COIL 33 UH
CH403 612500000 COIL 4.7 UH
CH404 930071830 COIL 40 UH
CH405 930070860 COIL 500 UH
CH501 930071296 COIL 33 UH
CH502 930070988 COIL 150 UH
CH503 612396000 COIL 1 UH
CH701 930071276 COIL 10 UH
PR501 9300702205 SOCKET PERIT.
Q101 792195000 QUARTZ 4433.619
Q201 930070200 QUARTZ 4 MHz
FC501 9300702197 FILTER 39.5 M.
FC701 9300702199 FILTER 6.00 M.
DI201 792203000 DISPLAY ACL4SG
LR101 792194000 DELAY LINE 270NS
LR102 9300702258 DELAY LINE 63.94UC9
682467000 PUSH BUTTON
342063001 SPRING FIX TRANS.

804019000

BS711.2

C550 930074048 220nF 63V
C551 930074050 330nF 63V
C552 930073163 2.2MF 63V
R555 930070498 4.7 K 1/4W
D550 582149000 1N 4148 RAD.
D551 582149000 1N 4148 RAD.
D552 582149000 1N 4148 RAD.
D553 582149000 1N 4148 RAD.
T550 930071228 RC 548B
CI550 930070597 HCF 4066BEY
CH550 930071276 COIL

804017000

BS712.1+BS689.1+BS690.1

C201 522706000 1nF 50W
C202 522706000 1nF 50W
C203 522706000 1nF 50W
C204 522706000 1nF 50W
C205 522706000 1nF 50W
C205/A 522706000 1nF 50W
C206 522706000 1nF 50W
C206/A 522706000 1nF 50W
C206/B 522706000 1nF 50W
C207 522706000 1nF 50W
C207/A 522706000 1nF 50W
C209 522706000 1nF 50W
C210 522706000 1nF 50W
C216 522706000 1nF 50W
R7 930070081 18 K 1/4W
R30 930070422 68 1/4W
T1 572230000 BF994S
T2 572230000 BF994S
T3 930070557 BF606A
T50 572232000 BF996S
T51 572233000 BF569
D1 582176000 BA682 BULK
D2 582176000 BA682 BULK
D4 582178000 BB629 TAPED
D5 582180000 BB629 BULK
D6 582178000 BB629 TAPED
D7 582176000 BA682 BULK
D8 582176000 BA682 BULK
D10 582176000 BA682 BULK
D11 582178000 BB621 TAPED
D12 582180000 BB621 BULK
D12/A 582180000 BB621 BULK
D13 582180000 BB621 BULK
D14 582178000 BB621 TAPED
D16 582176000 BA682 BULK

D50 582177000 BB621 TAPED
D51 582181000 BB621 BULK
D52 582177000 BB621 TAPED
D53 582177000 BB621 TAPED
D54 582177000 BB621 TAPED
D200 582176000 BA 682 BULK
D201 582176000 BA 682 BULK
CI200 592444000 PRESCALER 1:6
L5 930070128 COIL TA644/1
L203 930070628 COIL 36.5MHz
CH200 930071296 COIL 33UH
CH201 930071296 COIL 33UH
682500000 AERIAL SOCKET
803990001 STRIP UHF
803991001 STRIP VHF/CAT

803972000

BS679.2

C1 930070824 220MF 16V
CV28 502018000 TRIMMER
C2 930074044 100nF 63V
C3 930071451 100MF 25V
C3A 930070832 47MF 25V
C4 930074022 47nF 50V
C5 522473000 27pF 50V
C6 930071451 100MF 25V
C9 930074022 47nF 50V
C10 930074022 47nF 50V
C11 930074022 47nF 50V
C12 930073160 10nF 63V
C13 930071820 10MF 35V
C14 930073354 10MF 25V
C15 930073163 2.2MF 63V
C16 522487000 222pF 50V
C17 532274000 68nF 63V
C18 930073257 172pF 50V
C19 930071344 272pF 50V
C20 930072299 22nF 50V
C21 930073253 470pF 50V
C22 930073251 1nF 50V
C23 930073787 15pF 50V
C24 930073253 472pF 50V
C25 930070832 47MF 25V
C26 930074022 47nF 50V
C26A 930073169 47pF 50V
C27 930073787 15pF 50V
C29 930073027 10pF 50V
C30 930073837 18pF 50V
C33 522473000 27pF 50V
C34 522473000 27pF 50V
C35 930072986 150pF 50V
C36 930070610 150pF 50V
R1 930070004 6.8 0.3W
D1 930074457 1N 4148
D3 930074457 1N 4148
D4 930074457 1N 4148
D6 930074457 1N 4148
D7 930074457 1N 4148
T2 930071228 RC 548B
T3 930071230 BC 558B
T4 930071228 RC 548B
T5 930071228 RC 548B
T6 930071228 RC 548B
T7 930070418 BC 369
T10 930071228 RC 548B
T11 930071228 BC 548B
T12 930074592 RC 548B
T13 930071228 RC 548B
CI1 592421000 SAA 5230
CI2 592426000 ZE 8500
CI3 592427000 SAA 5240/A
CI4 592424000 T4 HC74
CI5 592443000 74LS132B
CI6 930070252 HM6116P4
L1 930071276 COIL
L2 612479000 COIL
L3 930072106 COIL
Q1 792188000 QUARTZ
Q2 9300702112 QUARTZ
FC3 792190000 FILTER

804065002

BS725.0

C135 930070702 470pF 50V
 C136 930072431 2.2nF 63V
 C137 930072241 4.7nF 63V
 R144 930070064 3.9 K 1/4W
 D135 582149000 1N 4148 RAD.
 T135 930071228 BC 548B
 T136 930071230 BC 558B
 T137 930071228 BC 548B
 T138 930071230 BC 558B

804034100

BS720.1

C150 930073743 47uF 25V
 C151 930074044 100nF 63V
 C152 930071290 680pF 50V
 C153 930073320 100nF 400V
 C154 512200000 47uF 250V
 C156 930071290 680pF 50V
 C158 930071290 680pF 50V
 C160 930071326 2.2nF 2KV
 R150 930070476 8.2 K 1/4W
 R153 930070428 100 1/4W
 R154 930070133 2.7 K 1/4W
 R155 930070133 2.7 K 1/4W
 R156 930070432 180 1/4W
 R158 930070133 2.7 K 1/4W
 R159 930070133 2.7 K 1/4W
 R160 930070432 180 1/4W
 R161 930070145 220 K 1/4W
 R162 930070133 2.7 K 1/4W
 R163 930070133 2.7 K 1/4W
 R164 930070432 180 1/4W
 R166 543106000 18 K 2W
 R167 930070136 560 0.3W
 R168 543101000 1 K 1W
 R169 930070217 68 K 0.7W
 R171 543106000 18 K 2W
 R173 543101000 1 K 1W
 R174 930070217 68 K 0.7W
 R176 543106000 18 K 2W
 R178 543101000 1 K 1W
 R179 930070217 68 K 0.7W

R181 930070221 0.10 0.4W
 R182 930071027 1 K 1W
 P150 930072547 2.2 K 0.1W
 P151 930072547 2.2 K 0.1W
 P152 930072547 2.2 K 0.1W
 P153 552184000 POT. FUOCO/G2
 D150 930074457 1N 4148
 D151 930074457 1N 4148
 D152 930074457 1N 4148
 D153 930074457 1N 4148
 D154 930074457 1N 4148
 D155 930074457 1N 4148
 D156 930074457 1N 4148
 T150 930071230 BC 558B
 T151 930074592 BC 548B
 T152 930072432 BF 758
 T153 930074592 BC 548B
 T154 930072432 BF 758
 T155 930074592 BC 548B
 T156 930072432 BF 758
 T157 930070840 BF 393
 T158 930070852 BF 493S
 T159 930070840 BF 393
 T160 930070852 BF 493S
 T161 930070840 BF 393
 T162 930070852 BF 493S
 CH150 612538000 COIL 35UH
 682486000 SOCKET TRC

804035000

BS721.1

C950 930072144 150nF 250V
 C951 930073653 47nF 630V
 P0950 543138000 PTC 260VRMS
 TR951 930072185 COIL 2X20MH
 F950 930076759 FUSE 3.15A
 930076491 FUSE HOLDER

I950 672083000 MAINS SWITCH
 PR950 930702256 JACK

804031000

BS718.1

C350 930070616 220nF 63V
 C351 532382000 150nF 63V
 C352 930074054 680nF 50V
 C353 930071638 22nF 16V
 C354 930071822 220uF 16V
 C355 930073167 4.7uF 63V
 C356 930074042 47nF 63V
 C357 930071816 1nF 50V
 P350 930072541 47 K 0.1W
 P351 930072541 47 K 0.1W
 P352 552179000 220 0.1W
 R350 930070012 27 0.35W
 R352 930070209 15 K 1/4W
 R356 930070141 33 K 1/4W
 R356A 930070141 33 K 1/4W
 R361 930070141 33 K 1/4W
 R364 930070137 10 K 1/4W
 D350 930074457 1N 4148
 DZ350 930073832 ZPD 22
 D351 930074085 BA 157
 T350 930071228 BC 548B
 T351 930071230 BC 558B
 T352 930071230 BC 558B
 T353 930071214 BC 337/25
 L350 612542000 COIL 15MH

804001000

BS706/0

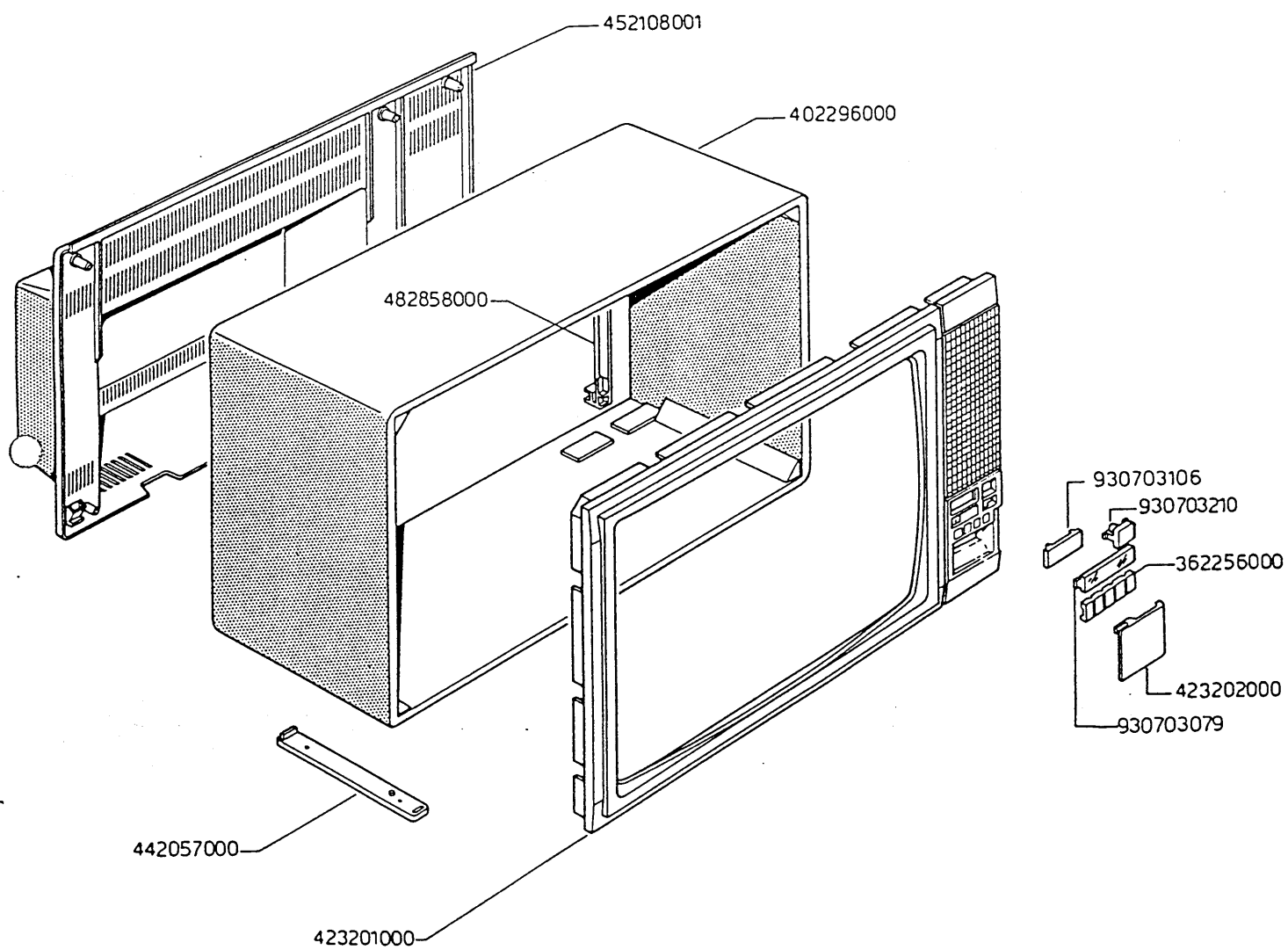
C801 930073757 1000MF 10V
 R801 930070458 2.2 K 1/4W
 R802 930070083 22 K 1/4W
 D801 930074793 1N 4001
 DL801 930070562 CQX 89A-2
 DL802 930070562 CQX 89A-2
 DZ801 930072259 ZTF 3
 T801 930071228 BC 548B
 T802 930072342 BC 635
 CI801 592439000 MC144105P
 FC801 930702135

804000000

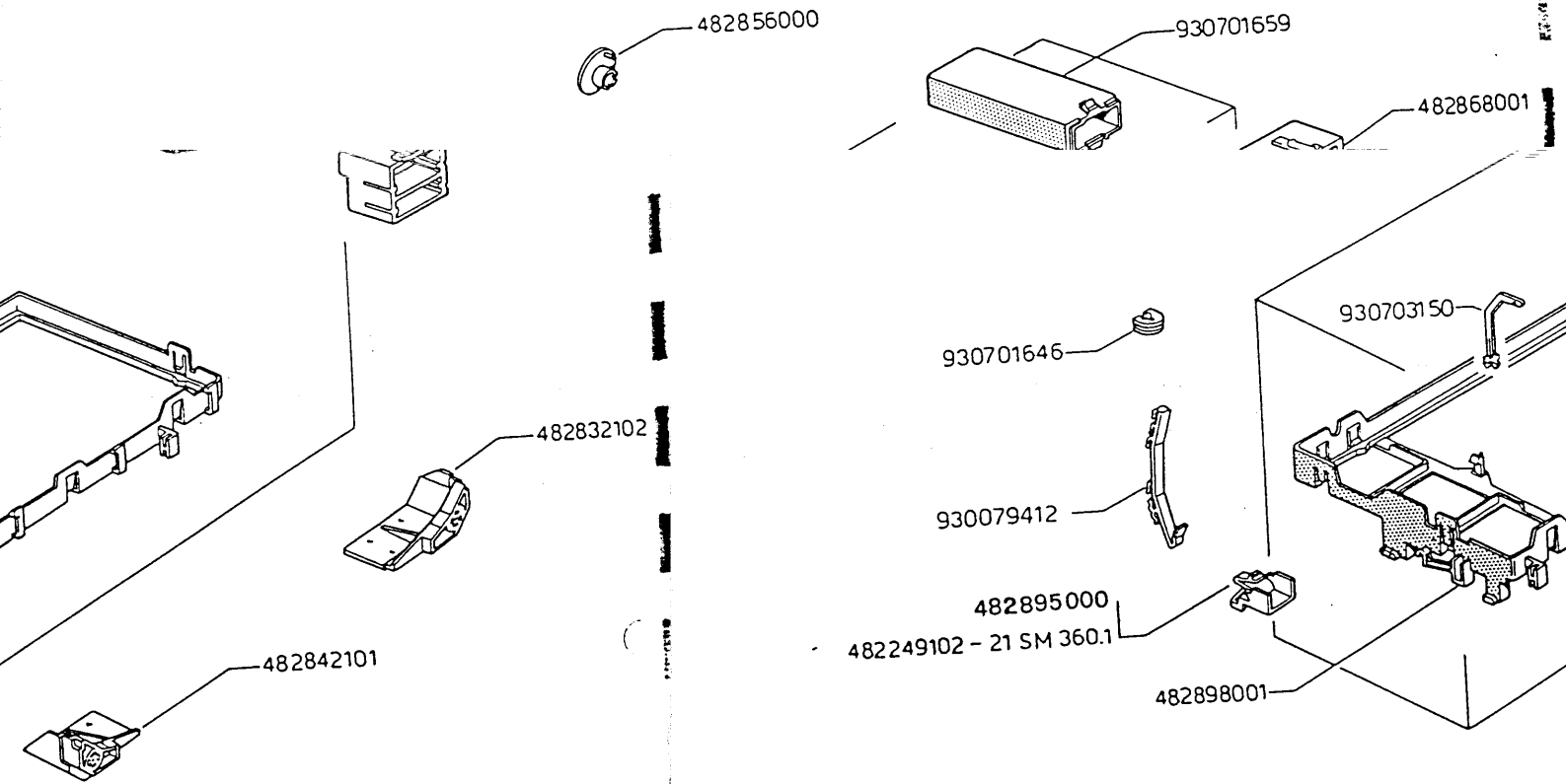
482776001 BASE
 930703137 BATTERY COVER
 482870000 TRANSMITTER COVER
 930703052 RUBBER CONTACTS
 930703146 BRAND
 930701436 SLIDE PAD
 930703078 KEY BOARD
 804001000 TRANSMITTER P.C.B.

For Service Manuals
MAURITRON SERVICES
 8 Cherry Tree Road, Chinnor
 Oxfordshire, OX9 4QY.
 Tel (01844) 351694
 Fax (01844) 352554
 email:- mauritron@dial.pipex.com

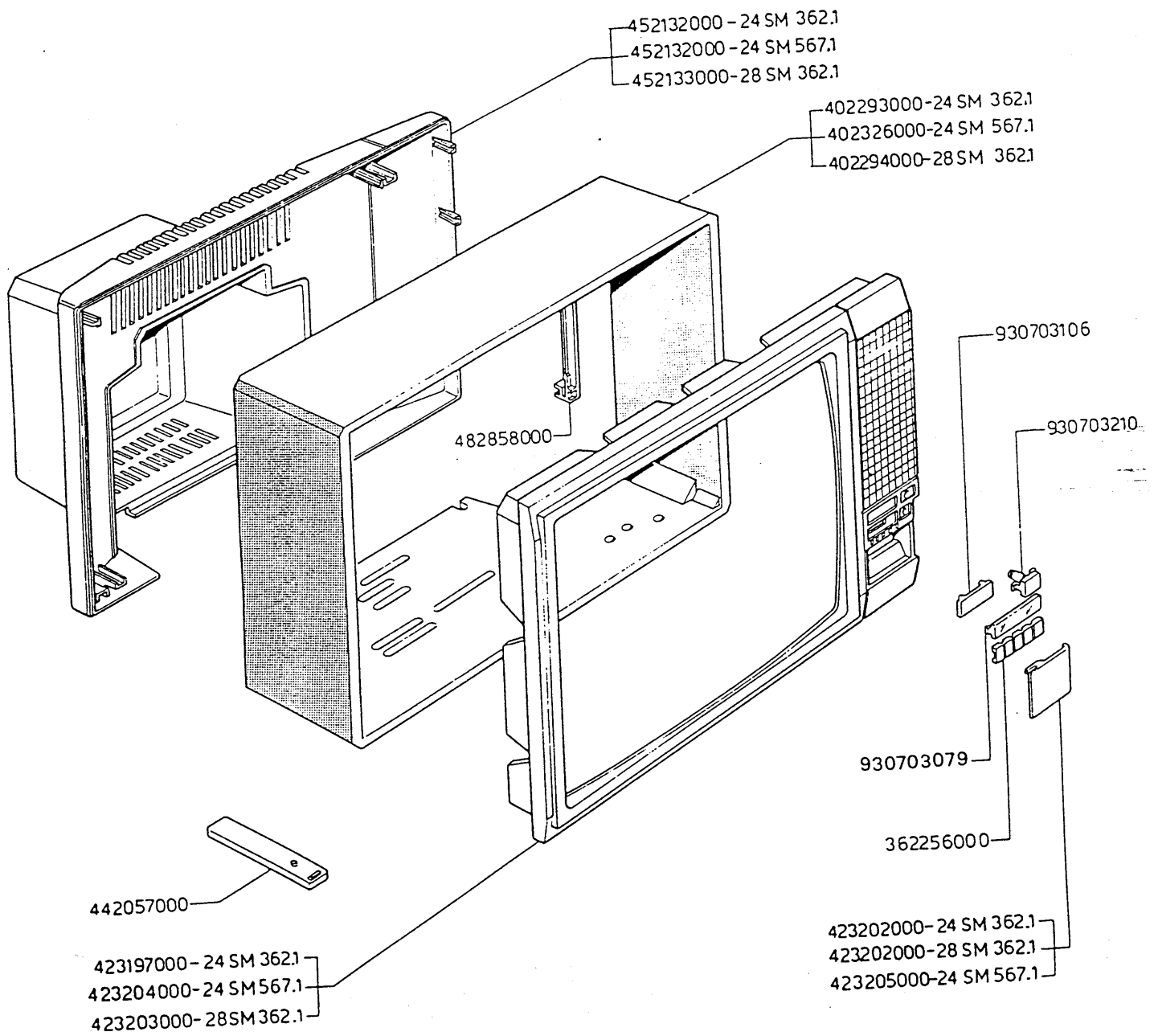
21SM360.1UK



21 SM 360.1UK
24 SM 362.1UK
24 SM 567.1UK
28 SM 362.1UK



24 SM 362.1UK
 24 SM 567.1UK
 28 SM 362.1UK




TELETEXT DECODER ADJUSTMENT PROCEDURE

Note: The following adjustments should be carried out only in case of replacement of C.I.1, SAA 5230.

Signals and instruments required:

- Video signal with Teletext information
- Frequency meter

6 MHz clock adjustment

- Connect pin 22 of C.I.1 (SAA 5230) to ground.
- Call a text page on the screen, then press key  on remote control.
- Connect frequency meter probe to pin 17 of C.I.1 (SAA 5230) and adjust trimmer CV1 to read a frequency of $6.000.200 \text{ Hz} \pm 200 \text{ Hz}$
- Remove connection between pin 22 of C.I.1 and ground and verify that text is immediately synchronized.


ABGLEICHVERFAHREN TELETEXT DECODER

Bemerkung: Die nachfolgenden Einregulierungen sind nur im Falle der Ersetzung der integrierten Schaltung C.I.1 SAA 5230 vorzunehmen.

Erforderliche Signale und Messinstrumente:

- Videosignal mit Teletext-Information
- Frequenzmesser.

6 MHz Clock - Einregulierung

- Steckkontakt (Pin) 22 des C.I.1 SAA 5230 an Masse anschliessen.
- Eine Teletext-Seite auf dem Bildschirm abrufen, danach  auf der Fernbedienung drücken.
- Messleitung des Frequenzmessers an Steckkontakt (Pin) 17 des C.I.1 SAA 5230 anlegen und Trimmer CV1 auf eine Frequenz von $6.000.200 \text{ Hz} \pm 200 \text{ Hz}$ einregulieren.
- Kurzschluss des Steckkontaktes 22 des C.I.1 von der Masse entfernen und die sofortige Synchronisierung der Textseite prüfen.


OPERATIONS DE TARAGE DU DECODEUR TELETEXT

Note: Effectuer les réglages qui suivent seulement lorsqu'on remplace le circuit intégré C.I.1 SAA 5230.

Signaux et instruments nécessaires:

- Signal vidéo avec information Télétex
- Fréquencemètre

Réglage du clock 6 MHz

- Connecter à la masse la broche 22 du C.I.1 SAA 5230.
- Afficher sur l'écran du téléviseur une page Télétex, ensuite pousser  sur la télécommande.
- Connecter la sonde du fréquencemètre à la broche 17 du C.I.1 SAA 5230 et régler le trimmer capacitif CV1 pour la fréquence de $6.000.200 \text{ Hz} \pm 200 \text{ Hz}$
- Oter le court-circuit de la broche 22 du C.I.1 de la masse et vérifier la synchronisation immédiate de la page de Télétex.


OPERAZIONI DI TARATURA DECODIFICATORE TELETEXT

Le regolazioni seguenti sono da effettuarsi solamente nel caso di sostituzione dell'integrato C.I.1 SAA 5230.

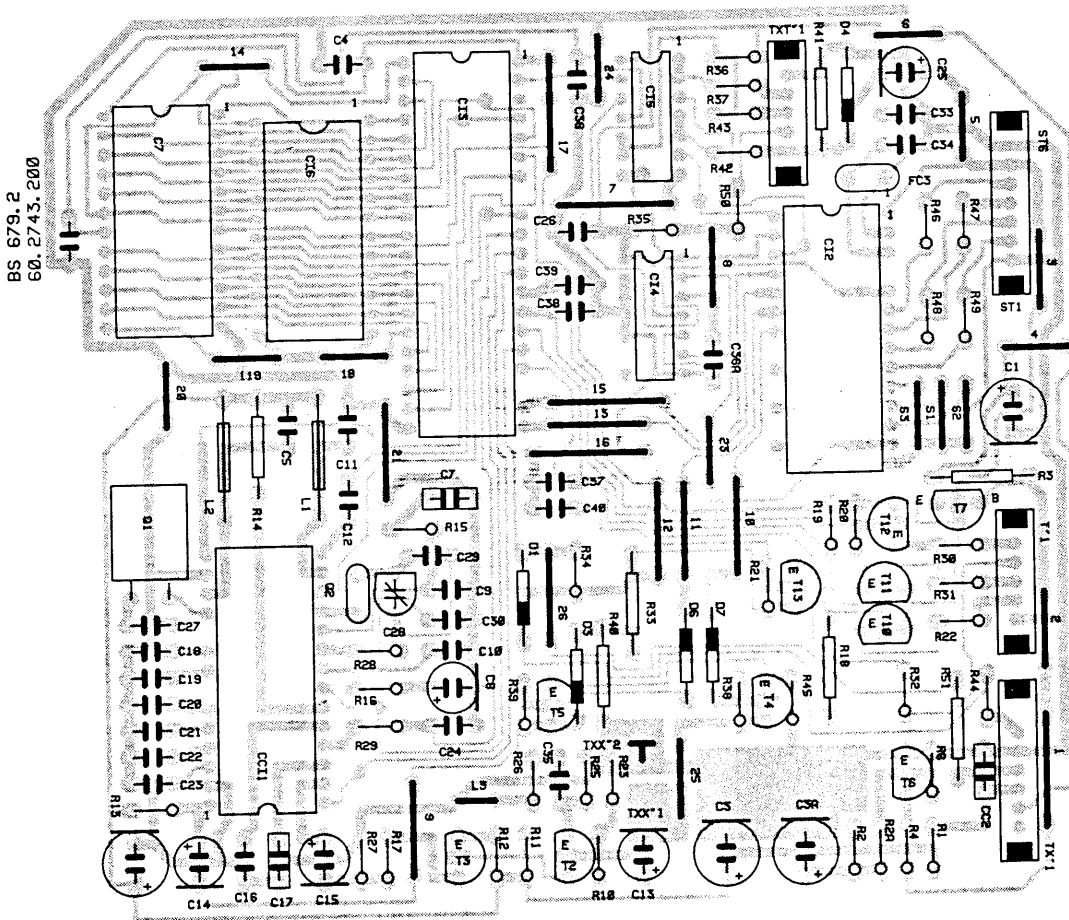
Segnali e strumenti necessari:

- Segnale video con informazione Teletext
- Frequenzimetro.

Regolazione clock 6MHz

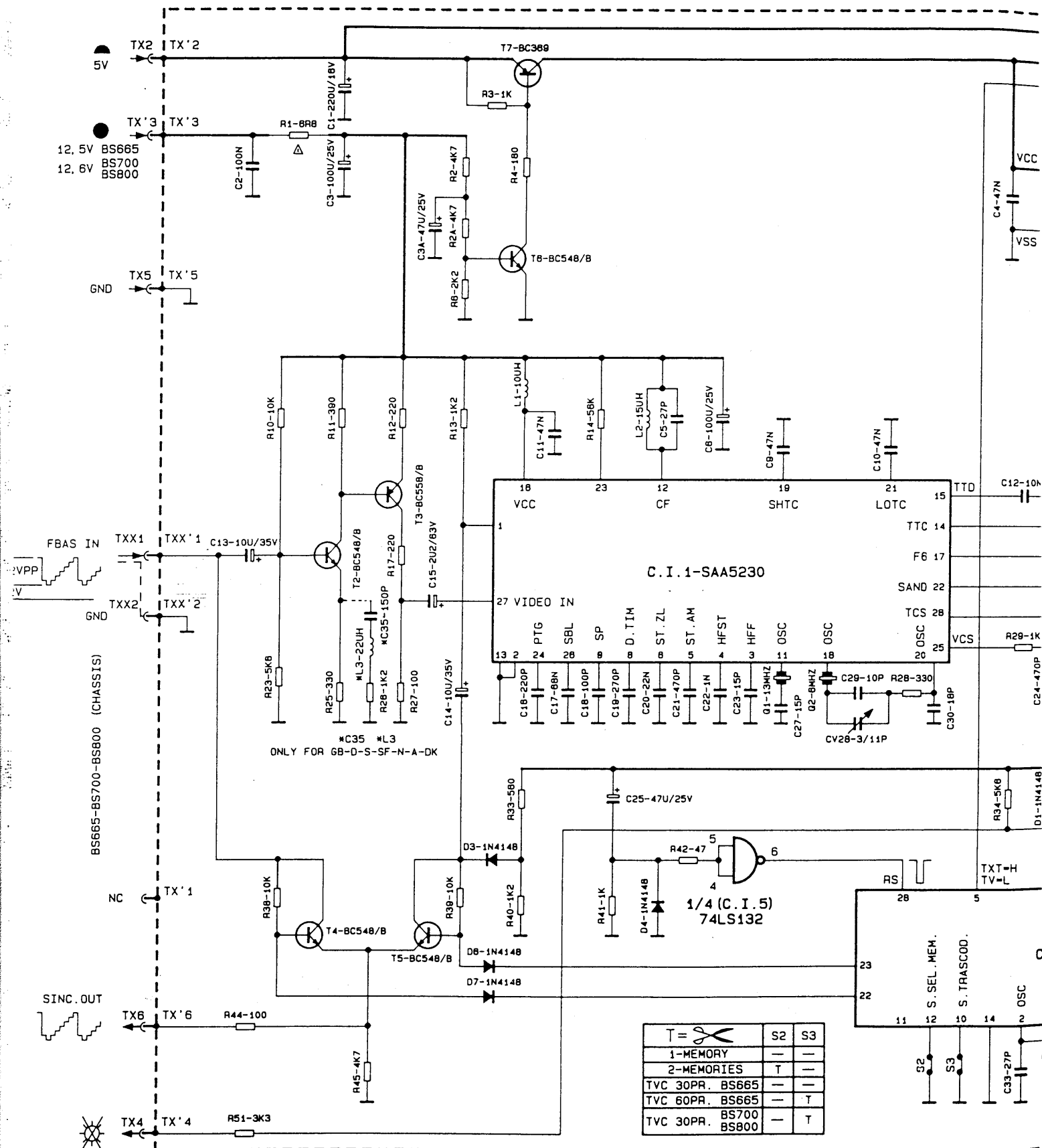
- Collegare a massa il pin 22 di C.I.1 SAA 5230.
- Visualizzare sullo schermo del televisore una pagina Teletext quindi premere  sul telecomando.
- Porre la sonda del frequenzimetro sul pin 17 di C.I.1 SAA 5230 e tarare il trimmer capacitativo CV1 per una frequenza di $6.000.200 \text{ Hz} \pm 200 \text{ Hz}$
- Togliere il cortocircuito del pin 22 di C.I.1 da massa e verificare l'immediata sincronizzazione delle scritte Teletext.

BS 679.2

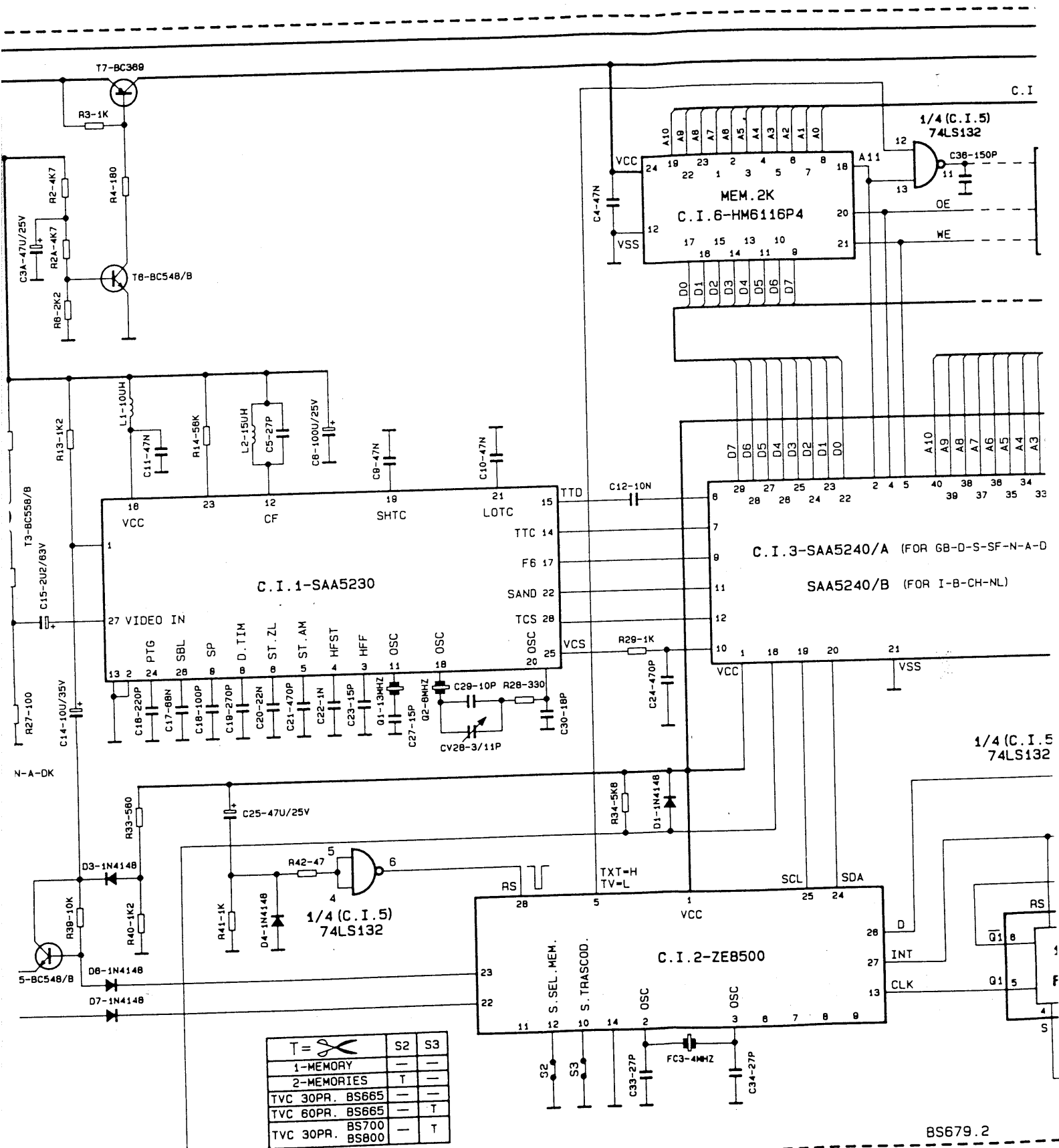


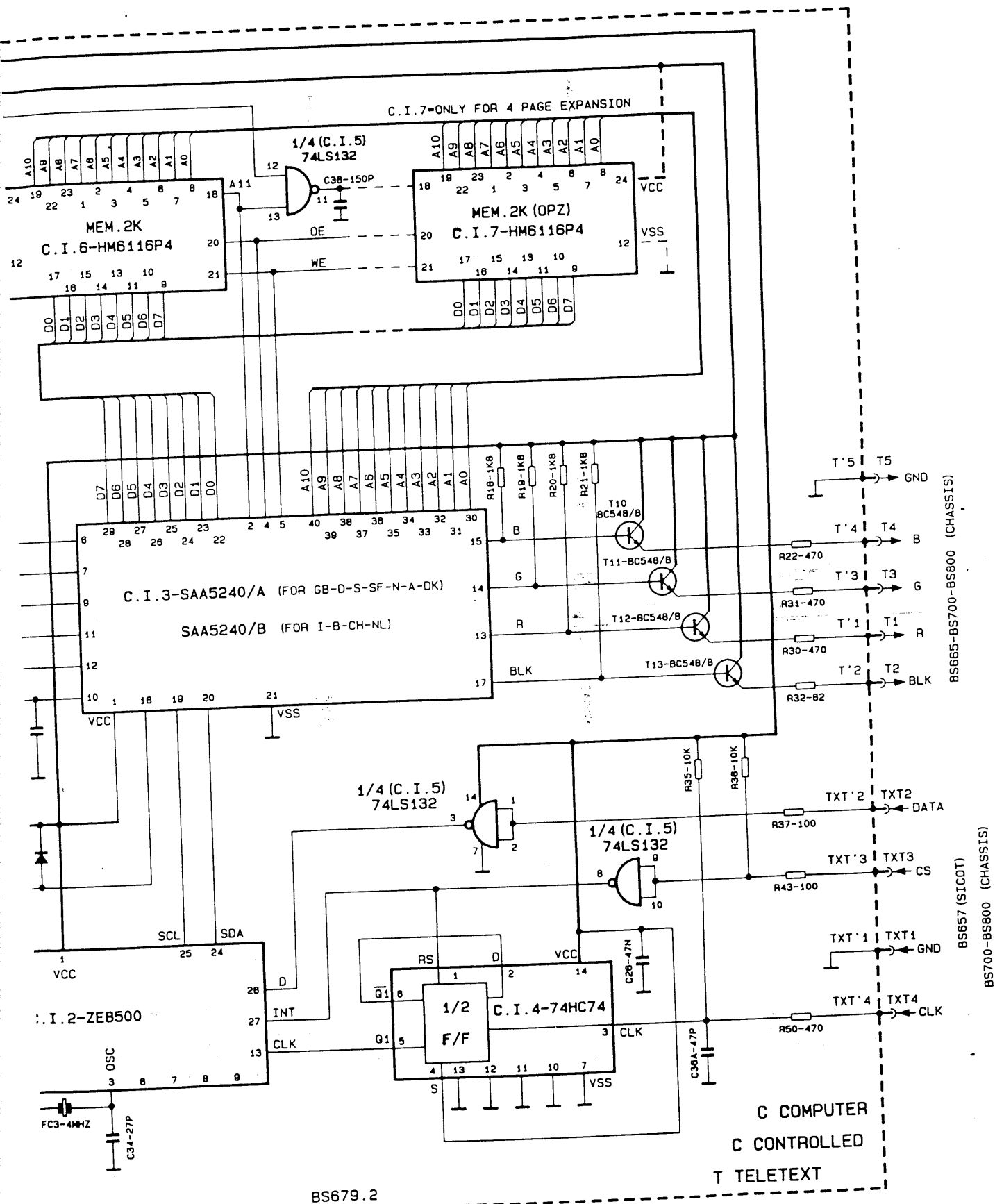
TELETEXT «CCT»

BS 679.2



XT «CCT»





Sequence of adjustment BS 800

Power supply (brightness and contrast to minimum, screen not illuminated).

- Adjust P401 to read 142V +/- 1V on CH405.

Geometry (with aerial signal and brightness, colour and contrast half-way).

- Connect a short-circuit bridge onto Fo Adjust.
- Adjust P501 for a minimum picture horizontal drift.
- Remove short-circuit bridge.
- Adjust vertical amplitude with P601.
- Adjust vertical linearity with P602.
- Position vertical shift bridge to obtain the correct vertical centering of the picture.
- Adjust the horizontal centering of the picture with P503.
- Adjust horizontal amplitude with L351.
- Adjust E/W pin-cushion correction with P350.
- Carry out trapezium correction with P352.

Video-Audio IF (100% modulated test picture plus musical note).

- Note:** All coil adjustments must be carried out with plastic tools.
- Oscilloscope probe on PIN 17 of CI501 (TDA 4502A).
 - Connect a 20 Kohm/V meter, 10V full scale, to pin 5 of CI501.
 - Adjust L504 for a minimum signal between black and white and at the same time check for the best video response.
 - With signal of 1.5-2 mV on the aerial adjust P502 to read approx 6.5 in the voltmeter.
 - Connect oscilloscope probe to pin 19 of PR501.
 - Adjust L502 for the minimum

Sequenz der regelungen BS 800

Stromversorgung (Helligkeit und Kontrast auf Minimum. Bildschirm nicht beleuchtet).

- P401 an CH405 auf 142V +/- 1V abgleichen.

- Geometrie** (mit Antennensignal und Helligkeit, Farbe und Kontrast auf Mittelstellung).
- Kurzschluss-Brücke auf Fo Adjust einstecken.
 - P501 auf minimalen Horizontal-Bildlauf abgleichen.
 - Kurzschluss-Brücke wegnehmen.
 - Mit P601 vertikale Amplitude abgleichen.
 - Mit P602 vertikale Linearität abgleichen.
 - Vertikal-Shift-Brücke auf korrekte vertikale Bildzentrierung einstellen.
 - Mit P503 horizontale Bildzentrierung abgleichen.
 - Mit L351 Horizontalamplitude abgleichen.
 - Mit P350 Kissenentzerrung O/W abgleichen.
 - Mit P352 Trapezentzerrung abgleichen.

Video-Ton Z.F. (100% modulierte Normtestbild + Musikton).

- Wichtig:** Alle Spulenabgleichverfahren müssen mit Kunststoffwerkzeugen ausgeführt werden.
- Oszilloskopsonde an Punkt 17 des CI501 (TDA 4502A).
 - 20 KOHM/V Voltmeter, 10V Skalenwert, an Punkt 5 des CI501 anschliessen.
 - L504 auf Signalminimum zwischen Weiss und Schwarz abgleichen und gleichzeitig auf beste Videoantwort prüfen.
 - Mit 1.5-2 mV Antennensignal P502 abgleichen, bis ca. 6.5V am 5Voltmeter abgelesen

Operations de reglage BS 800

Alimentation (luminosité et contraste au minimum, écran non éclairé).

- Régler P401 pour obtenir 142V +/- 1V sur CH405.

- Géometrie** (avec signal en antenne et luminosité, couleur et contraste à demi-réglage).
- Brancher le pontage de court-circuit à Fo Adjust.
 - Régler P501 jusqu'à obtenir le glissement minimal de l'image en sens horizontal.
 - Enlever le pontage de court-circuit.
 - Régler P601 pour l'amplitude verticale.
 - Régler P602 pour la linéarité verticale.
 - Déplacer le pontage de shift vertical pour obtenir le centrage correct de l'image en sens vertical.
 - Régler P503 pour obtenir le centrage horizontal de l'image.
 - Régler l'amplitude horizontale par L351.
 - Régler P350 pour corriger le coussin E/O.
 - Régler P352 pour corriger le trapèze.

F.I. vidéo/son (signal mire avec modulation 100% + note musicale).

- Note:** tout réglage des bobines doit être effectué par des outils en plastique.
- Brancher la sonde de l'oscilloscope au point 17 du CI501 (TDA 4502A).
 - Brancher un voltmètre 20 Kohm/V, échelle 10V, au point 5 du CI501.
 - Régler L504 pour le minimum du signal entre le blanc et le noir. En même temps vérifier la meilleure réponse vidéo.
 - Avec un signal de 1.5-2 mV en antenne, régler P502 pour lire environ 6.5V.
 - Brancher la sonde de

Operazioni di taratura BS 800

Alimentazione (luce e contrasto al minimo, schermo buio).

- Regolare P401 x 142V +/- 1V su CH405.

- Geometria** (con segnale in antenna e luce, colore, contrasto a mezza via).
- Inserire il ponte di cc. su Fo Adjust.
 - Regolare P501 per il minore scorrimento dell'immagine in senso orizzontale.
 - Disinserire il ponte di cc.
 - Regolare P601 per la ampiezza verticale.
 - Regolare P602 per la linearità verticale.
 - Posizionare il ponte dello shift verticale per la corretta centratura dell'immagine in senso verticale.
 - Regolare P503 per la centratura orizzontale dell'immagine.
 - Regolare L351 per la ampiezza orizzontale.
 - Regolare P350 per la correzione cuscino E/W.
 - Regolare P352 per la correzione del trapezio.

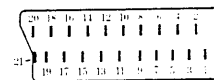
**Frequenza intermedia
Video - Audio**

- (segnale monoscopico con modulazione 100% + nota musicale).
- N.B.** Tutte le regolazioni sulle bobine vanno eseguite con utensili plastici.
- Sonda oscilloscopio su pin 17 di CI501 (TDA 4502A).
 - Voltmetro 20 KOHM/V 10Vf/s su pin 5 di CI501.
 - Regolare L504 per il minimo del segnale tra il bianco ed il nero e nel frattempo verificare la migliore risposta ai transistori.
 - Con segnale 1.5-2 mV in antenna, regolare P502 per circa 6.5V sul voltmetro.
 - Sonda oscilloscopio su pin 19 di PR501.

Description of the interconnections "PERITELEVISION"

**Schema für Anschluss-Stecker
"PERITELEVISION"**

Description des interconnexions du connecteur "PERITELEVISION"
**Schema delle connessioni della presa
"PERITELEVISION"**



Nominal values
Merkmale
Caractéristiques
Caratteristiche

PIN

- | | |
|---|--------------------------|
| 1 Audio output B:
Ton-Ausgang:
Sortie audio:
Uscita audio: | 0.5 Vrms
1 kohm |
| 2 Audio input B:
Ton-Eingang:
Entree audio:
Ingresso audio: | 0.5 Vrms
10 kohm |
| 3 Audio output A:
Ton-Ausgang:
Sortie audio:
Uscita audio: | 0.5 Vrms
1 kohm |
| 4 Audio common return
Gemeinsame Erdung
Masse commune audio
Massa comune per il segnale audio | |
| 5 Blue component return
Erdung blaues Signal
Masse bleu
Massa segnale blu | |
| 6 Audio input A:
Ton-Eingang:
Entree audio:
Ingresso audio: | 0.5 Vrm
10 kohm |
| 7 Blue component:
Eingang blaues Signal:
Entree composante bleu:
Ingresso segnale blu: | 0.7 V +/- 3 dI
75 ohm |
| 8 Function switching:
Kommutierungs-spannung: 9.5/12V - A
Entree. Commutation lente:
Tensione di commutazione: | 0/2V - T |
| 9 Green component return
Erdung grünes Signal
Masse vert
Massa segnale verde | |
| 11 Green component: | 0.7 V +/- 3 d
75 ohm |

Operazioni de reglage

Alimentazione (luminosité et contraste au minimum, écran en éclairé).
Régler P401 pour obtenir 42V +/- 1V sur CH405.

Geometrie (avec signal en antenne et luminosité, couleur en éclairé).
Brancher le pontage de court-circuit à Fo Adjust.
Régler P501 jusqu'à obtenir le glissement minimal de l'image en sens horizontal.
Enlever le pontage de court-circuit.

Régler P601 pour l'amplitude verticale.

Régler P602 pour la linearité verticale.

Déplacer le pontage de shift vertical pour obtenir le centrage correct de l'image en sens vertical.

Régler P503 pour obtenir le centrage horizontal de l'image.

Régler l'amplitude horizontale par L351.

Régler P350 pour corriger le coussin E/O.

Régler P352 pour corriger le rapèze.

Video/son (signal mire de modulation 100% + note musicale).

te: tout réglage des bobines à être effectué par des fils en plastique.

brancher la sonde de oscilloscope au point 17 du CI501 (TDA 4502A).

brancher un voltmètre 20 ohm/V, échelle 10V, au point 5 du CI501.

Régler L504 pour le minimum du signal entre le blanc et le noir. En même temps vérifier la meilleure réponse vidéo.

avec un signal de 1.5-2 mV en antenne, régler P502 pour environ 6.5V.

brancher la sonde de oscilloscope au point 19 de PR501.

Régler L502 pour réduire au minimum l'amplitude du signal du son présent sur le signal vidéo.

brancher l'oscilloscope au point 103 de PR501.

Régler L701 pour le sortie aximale (distorsion minimale).

Luminance et chrominance (couleur avec modulation 100%).

Régler la couleur pour obtenir une matrice correcte (voir schéma au point 14 du CI101).

brancher la sonde de l'oscilloscope (10/1) au point 14 (bleu) de CI101 (TDA 3301).

Régler P101 jusqu'à obtenir l'information anti-PAL minimale.

Régler L105 jusqu'à obtenir la différence minimale entre deux lignes consécutives.

Age G2 (signal mire).
Le noir éteint, mesurer l'oscilloscope réglé pour obtenir le niveau du noir sur les multiplicateurs finals vidéo.

près, régler le plus haut à en agissant sur le potentiomètre de la G2.

Age du blanc (signal mire).
Le blanc de l'échelle des gris pas uniforme sur toutes les lignes, affaiblir les couleurs dominantes en agissant sur - P151 - P152.

Focalizzazione (Effettuare la migliore focalizzazione mediante un segnale di modulazione 100% + nota musicale).

N.B. Tutte le regolazioni sulle bobine vanno eseguite con utensili plastici.

- Sonda oscilloscopio su pin 17 di CI501 (TDA 4502A).

- Voltmetro 20 KOHM/V 10Vf/s su pin 5 di CI501.

- Regolare L504 per il minimo del segnale tra il bianco ed il nero e nel frattempo verificare la migliore risposta ai transistori.

- Con segnale 1.5-2 mV in antenna, regolare P502 per circa 6.5V sul voltmetro.

- Sonda oscilloscopio su pin 19 di PR501.

- Regolare L502 per la minore ampiezza del segnale audio presente sul segnale video.

- Oscilloscopi su pin 1 o 3 di PR501.

- Regolare L701 per la massima uscita (minore distorsione).

Luminanza + crominanza (monoscopio colore con modulazione 100%).

- Regolare il colore per la corretta matrice (vedi figura su pin 14 di CI101).

- Sonda oscilloscopio (10/1) su pin 14 (bleu) di CI101 (TDA 3301).

- Regolare P101 per la minore ampiezza dell'informazione anti PAL.

- Regolare L105 per la minore differenza di ampiezza di due righe consecutive.

Regolazione G2 (segnale monoscopio).
Con barra nera spenta, misurare con oscilloscopio in continua il livello del nero sui finali video, quindi regolare il più alto a 165V con il potenziometro della G2.

Taratura del bianco (segnale monoscopio). Se il bianco della scala dei grigi non è uniforme su tutte le barre, attenuare i colori predominanti agendo su - P150 - P151 - P152.

Focalizzazione (Effettuare la migliore focalizzazione mediante un segnale di modulazione 100% + nota musicale).

Operazioni de taratura

Alimentazione (luce e contrasto al minimo, schermo buio).

- Regolare P401 x 142V +/- 1V su CH405.

Geometria (con segnale in antenna e luce, colore, contrasto a mezza via).

- Inserire il ponte di cc. su Fo Adjust.

- Regolare P501 per il minore scorrimento dell'immagine in senso orizzontale.

- Disinserire il ponte di cc.

- Regolare P601 per la ampiezza verticale.

- Regolare P602 per la linearità verticale.

- Posizionare il ponte dello shift verticale per la corretta centratura della immagine in senso verticale.

- Regolare P503 per la centratura orizzontale dell'immagine.

- Regolare L351 per la ampiezza orizzontale.

- Regolare P350 per la correzione cuscino E/W.

- Regolare P352 per la correzione del trapezio.

Frequenza intermedia (segnale monoscopio con modulazione 100% + nota musicale).

N.B. Tutte le regolazioni sulle bobine vanno eseguite con utensili plastici.

- Sonda oscilloscopio su pin 17 di CI501 (TDA 4502A).

- Voltmetro 20 KOHM/V 10Vf/s su pin 5 di CI501.

- Regolare L504 per il minimo del segnale tra il bianco ed il nero e nel frattempo verificare la migliore risposta ai transistori.

- Con segnale 1.5-2 mV in antenna, regolare P502 per circa 6.5V sul voltmetro.

- Sonda oscilloscopio su pin 19 di PR501.

- Regolare L502 per la minore ampiezza del segnale audio presente sul segnale video.

- Oscilloscopi su pin 1 o 3 di PR501.

- Regolare L701 per la massima uscita (minore distorsione).

Luminanza + crominanza (monoscopio colore con modulazione 100%).

- Regolare il colore per la corretta matrice (vedi figura su pin 14 di CI101).

- Sonda oscilloscopio (10/1) su pin 14 (bleu) di CI101 (TDA 3301).

- Regolare P101 per la minore ampiezza dell'informazione anti PAL.

- Regolare L105 per la minore differenza di ampiezza di due righe consecutive.

Regolazione G2 (segnale monoscopio).
Con barra nera spenta, misurare con oscilloscopio in continua il livello del nero sui finali video, quindi regolare il più alto a 165V con il potenziometro della G2.

Taratura del bianco (segnale monoscopio). Se il bianco della scala dei grigi non è uniforme su tutte le barre, attenuare i colori predominanti agendo su - P150 - P151 - P152.

Focalizzazione (Effettuare la migliore focalizzazione mediante un segnale di modulazione 100% + nota musicale).

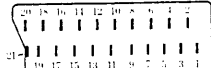
Description of the interconnections

"PERITELEVISION"

Schema für Anschluss-Stecker "PERITELEVISION"

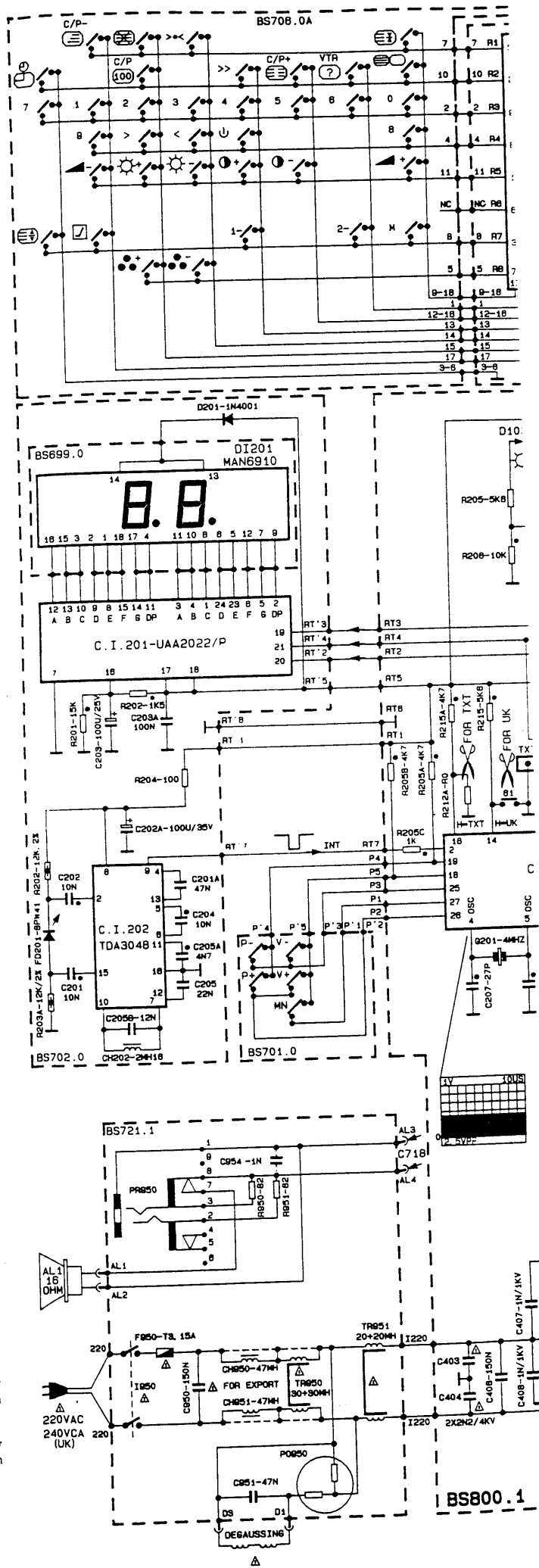
Description des interconnexions du connecteur "PERITELEVISION"

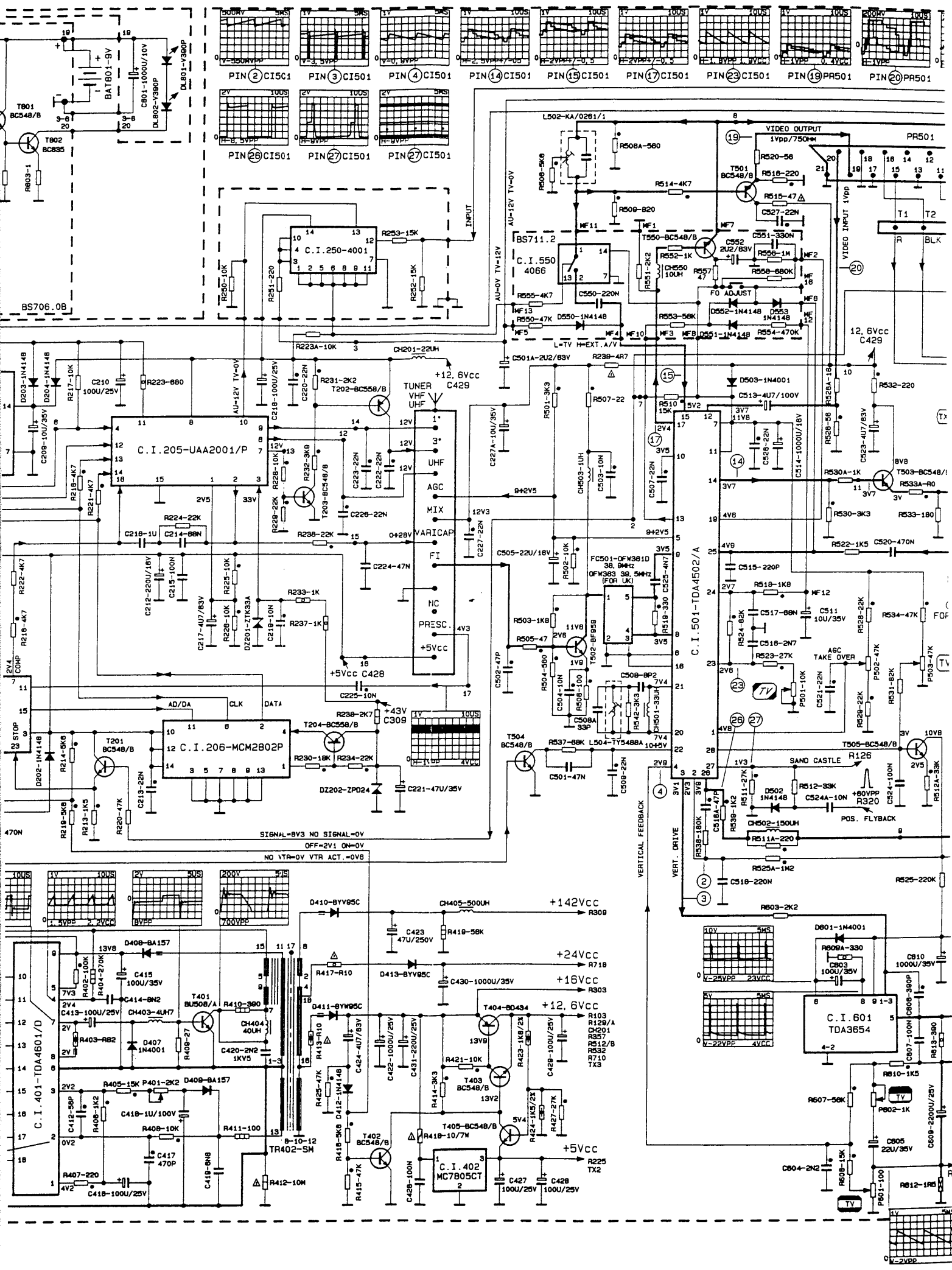
Schema delle connessioni della presa "PERITELEVISION"



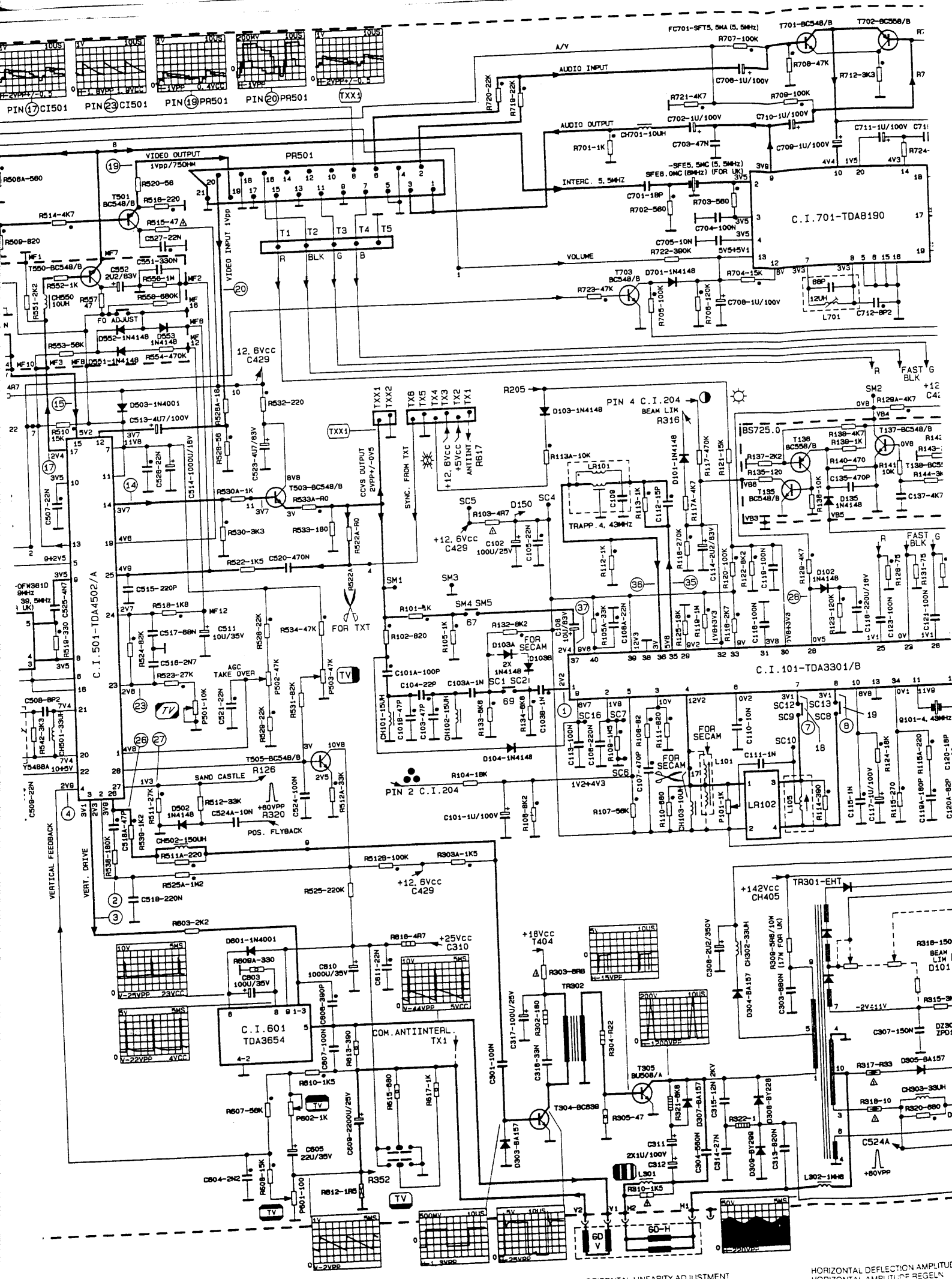
PIN	Nominal values Merkmale Caractéristiques Caratteristiche
-----	---

- Audio output B:
Ton-Ausgang:
Sortie audio:
Uscita audio: 0.5 Vrms
1 kohm
- Audio input B:
Ton-Eingang:
Entree audio:
Ingresso audio: 0.5 Vrms
10 kohm
- Audio output A:
Ton-Ausgang:
Sortie audio:
Uscita audio: 0.5 Vrms
1 kohm
- Audio common return
Gemeinsame Erdung
Masse commune audio
Massa comune per il segnale audio: 0.5 Vrms
10 kohm
- Blue component return
Erdung blaues Signal
Masse bleu
Massa segnale blu: 0.5 Vrms
10 kohm
- Audio input A:
Ton-Eingang:
Entree audio:
Ingresso audio: 0.5 Vrms
10 kohm
- Blue component:
Eingang blaues Signal:
Entree composante bleu:
Ingresso segnale blu: 0.7 V +/- 3 dB
75 ohm
- Function switching:
Kommuterungs-Spannung: 9.5/12V - AU
Entree, Commutation lente:
Tensione di commutazione: 0.2V - TV
- Green component return
Erdung grünes Signal
Masse vert
Massa segnale verde: 0.7 V +/- 3 dB
75 ohm
- Green component:
Eingang grünes Signal:
Entree composante vert:
Ingresso segnale verde: 0.7 V +/- 3 dB
75 ohm
- Red component return
Erdung rotes Signal
Masse Rouge
Massa segnale rosso: 0.7 V +/- 3 dB
75 ohm
- Red component:
Eingang rotes Signal:
Entree composante rouge:
Ingresso segnale rosso: 0.7 V +/- 3 dB
75 ohm
- Blanking:
Blanking:
Cancellazione: 0/0.4V
75 ohm
- Video return
Erdung Video-Signal
Masse video
Massa segnale video: 1 Vpp
75 ohm
- Blanking return
Erdung Blanking
Masse blanking
Massa cancellazione: 1 Vpp
75 ohm
- Video output:
Ausgang Video-Signal:
Sortie video:
Uscita segnale video: 1 Vpp
75 ohm
- Video input:
Eingang Video:
Entree video:
Ingresso video: LOGICAL 0
LOGIK 0
LOGIQUE 0
LOGICA 0: 0/0.4 V
75 ohm
LOGICAL 1
LOGIK 1
LOGIQUE 1
LOGICA 1: 1/3 V
75 ohm
- Plug shield
Bildschirmung oder gemeinsame Rückleitung
Blindage de la fiche
Massa schermo o ritorno comune: 10 - 12 - 14 N.C.





<p>HORIZONTAL PHASE ADJUSTMENT ZEILENPHASE REGELN REGULATION DE LA PHASE HORIZONTALE REGOLAZIONE FASE ORIZZONTALE</p>	<p>LINE FREQUENCY ADJUSTMENT ZEILEN FREQUENZ REGELN REGULATION DE LA FREQUENCE HORIZONTALE REGOLAZIONE FREQUENZA ORIZZONTALE</p>	<p>VERTICAL LINEARITY ADJUSTMENT VERTICAL BILLINEARITÄT REGELN REGULATION DE LA LINEARITE VERTICALE REGOLAZIONE LINEARITA VERTICALE</p>	<p>VERTICAL AMPLITUDE ADJUSTMENT VERTICAL BILDAMPLITUDE REGELN REGULATION DE L'AMPLITUDE VERTICALE REGOLAZIONE AMPIEZZA VERTICALE</p>	<p>VER REC REC</p>
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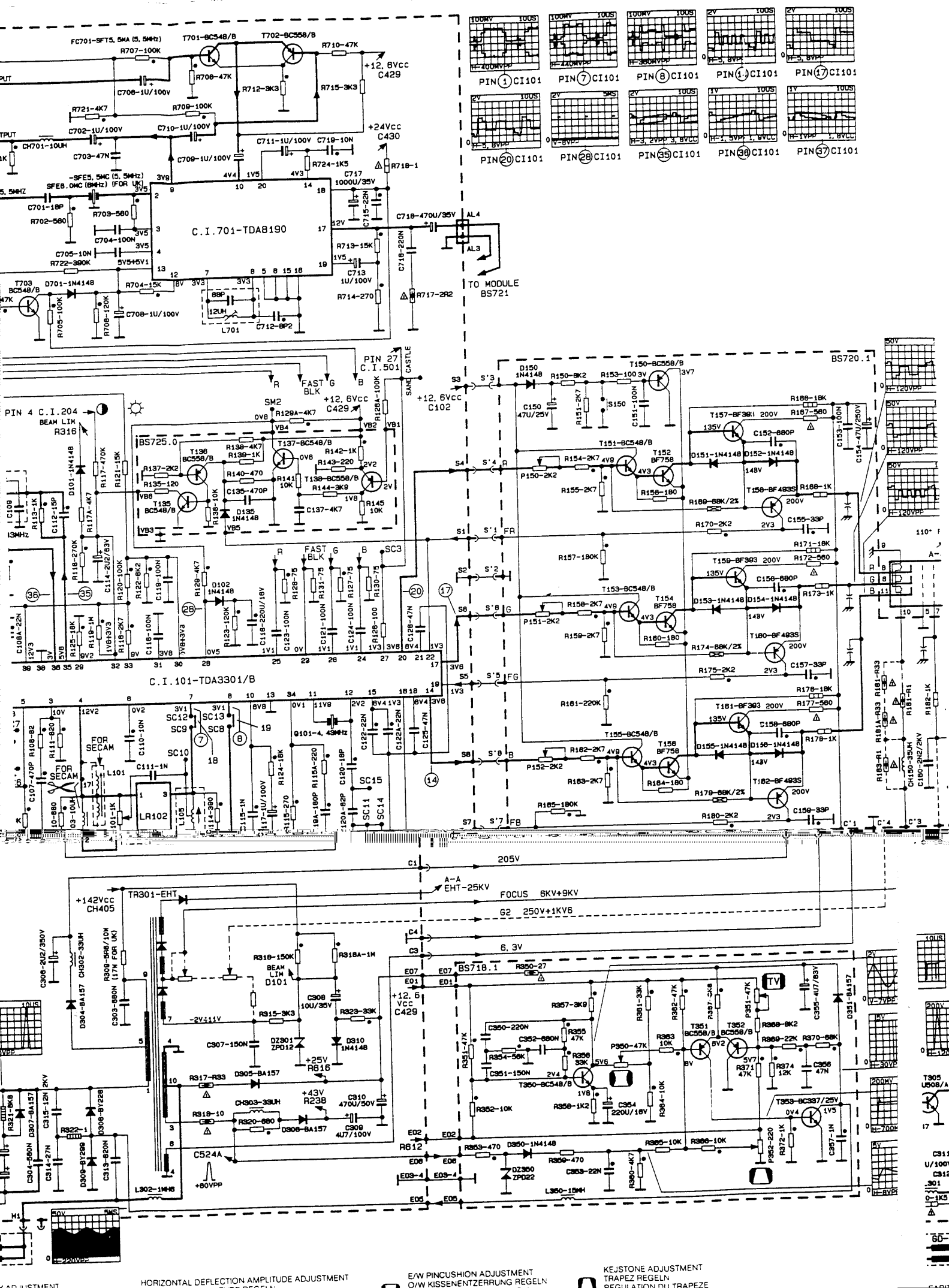


VERTICAL AMPLITUDE ADJUSTMENT
VERTICALE AMPLITUDE REGELN

VERTICAL SHIFTING ADJUSTMENT
VERTICALE BILDZENTRIERUNG REGELN
REGOLAZIONE AMPIZZA ORIZZONTALE

HORIZONTAL LINEARITY ADJUSTMENT
HORIZONTALE BILLINEARITÄT REGELN
REGOLAZIONE DELLA LINEARITÀ ORIZZONTALE

HORIZONTAL DEFLECTION AMPLITUDE
HORIZONTALE AMPLITUDE REGELN
REGOLAZIONE DELL'AMPIZZA ORIZZONTALE



Colour TV receiver Farbfernsehgerät Téléviseur couleur Televisore a colori

30 PR/100 BS 800.1 - 110°

BS 699 - 701 - 702 - 706 - 711 - 718 - 720 - 721 - 722

MEASUREMENTS PERFORMED USING COLOUR BARS WITH 100% MODULATION

MESSUNGEN SIGNALTYP 100% MODULIERTES FARBBALKEN

LES MESURES SONT EFFECTUEES AVEC SIGNAL: MIRE EN COULEUR MODULEE AU 100%

RILIEVI ESEGUITI CON SEGNALE: BARRE COLORE MODULETE AL 100%

MEASUREMENTS PERFORMED WITH:
ERGEBNISSE AUS:
MESURES EFFECTUEES AVEC:
RILIEVI ESEGUITI CON:



BLACK BAR OFF
SCHWARZER BALKEN AUS
BARRA NERA ETEINTE



COLOR MATRIX
FARBE MATRIX
MATRICE COULEUR
MATRICE COLORE



VOLUME MAX
LAUTSTARKE MAX
VOLUME MAX
VOLUME MAX
MOD. 100% - 1KHZ

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All resistors without markings are 1/4 W - 5%. All measurements refer to ground with mains supply 220V (240V UK) correct picture and a voltmeter of 20.000 Ohm/V.

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Alle Widerstände ohne Bezeichnung sind 1/4 W - 5%. Alle Messungen beziehen sich auf Masse, mit einer Netzspannung von 220 V (240 V UK) und normalem Fernsehsignal gemessen mit einem Voltmeter von 20.000 Ohm/V.

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Toutes les résistances sans d'indication sont de 1/4 W - 5%. Toutes les mesures sont respect à la masse, avec tension secteur 220 V (240 V UK). Image correcte et avec un voltmètre de 20.000 Ohm/V.

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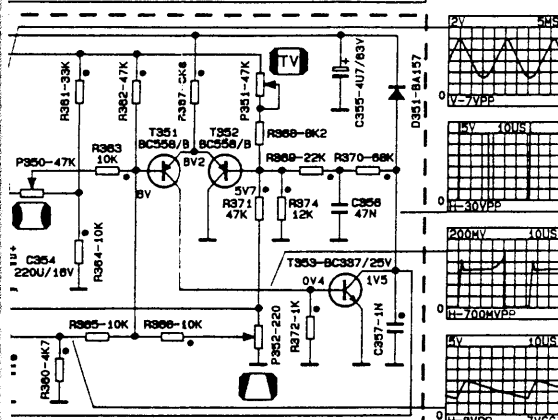
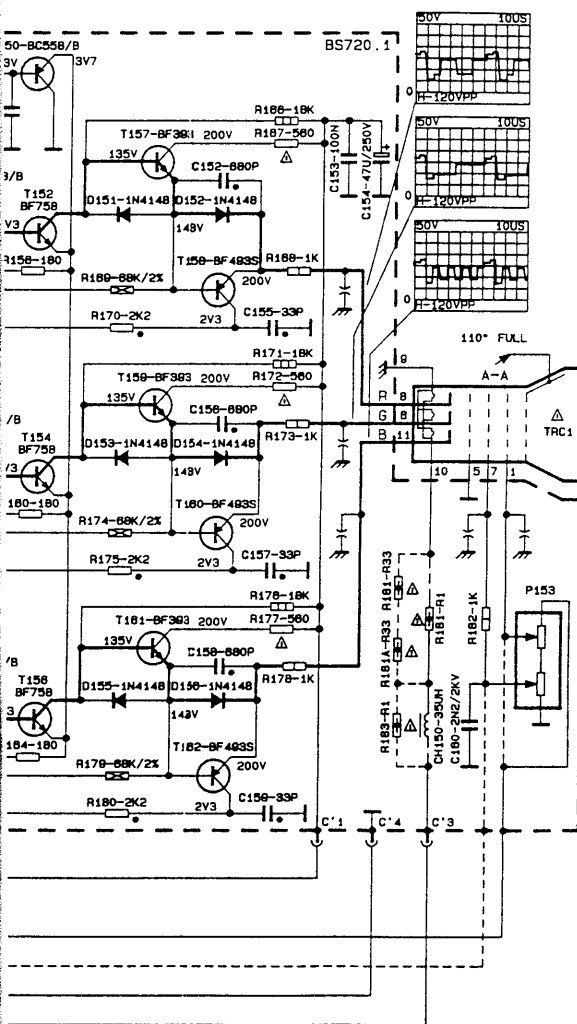
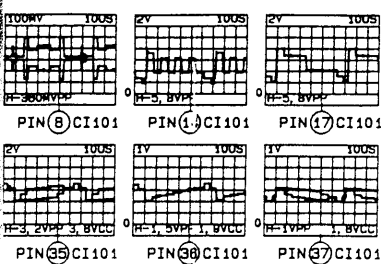
Tutte le resistenze prive d'indicazione s'intendono da 1/4 W - 5%. Tutte le misure s'intendono rispetto a massa con alimentazione rete 220 V (240 V UK). Immagine corretta con un voltmetro da 20.000 Ohm/V.

All components bearing the symbol are essential for safety and may only be replaced with original spare parts. Do not change the electrical or mechanical characteristics after repair.

▲ Diese Bauteile sind wesentlich für die Sicherheit und können nur durch Originalteile ersetzt werden; nach einer Reparatur dürfen die elektrischen sowie mechanischen Merkmale nicht verändert werden.

▲ Ces composants sont essentiels aux fins de la sécurité et peuvent être changé seulement avec composants originels. Après le dépannage de l'appareil, les caractéristiques électriques et mécaniques ne doivent pas être altérée.

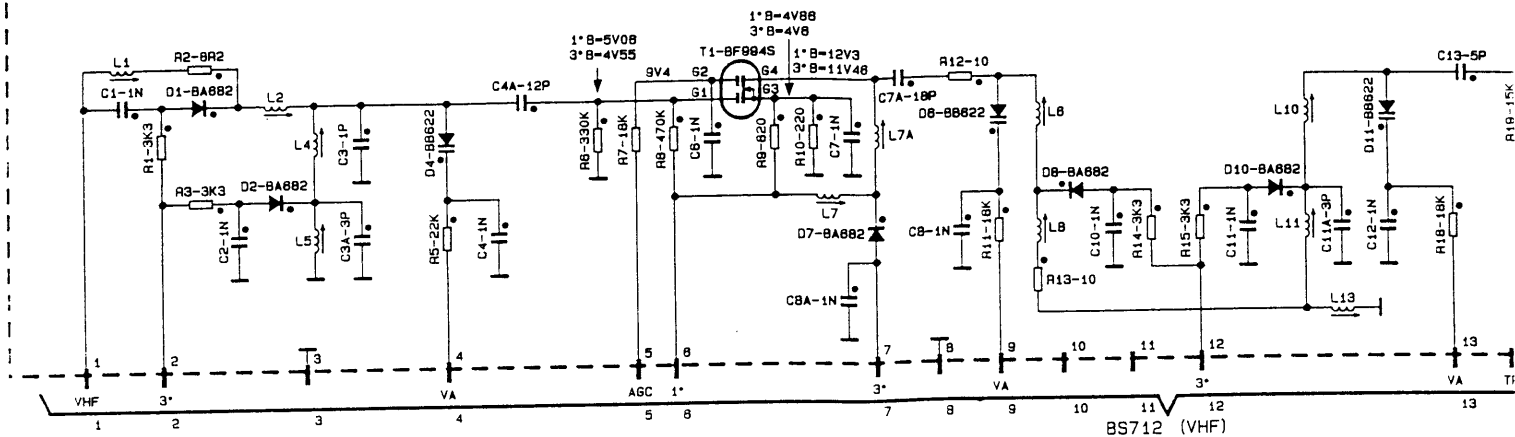
▲ Questi componenti sono essenziali ai fini della sicurezza e possono essere



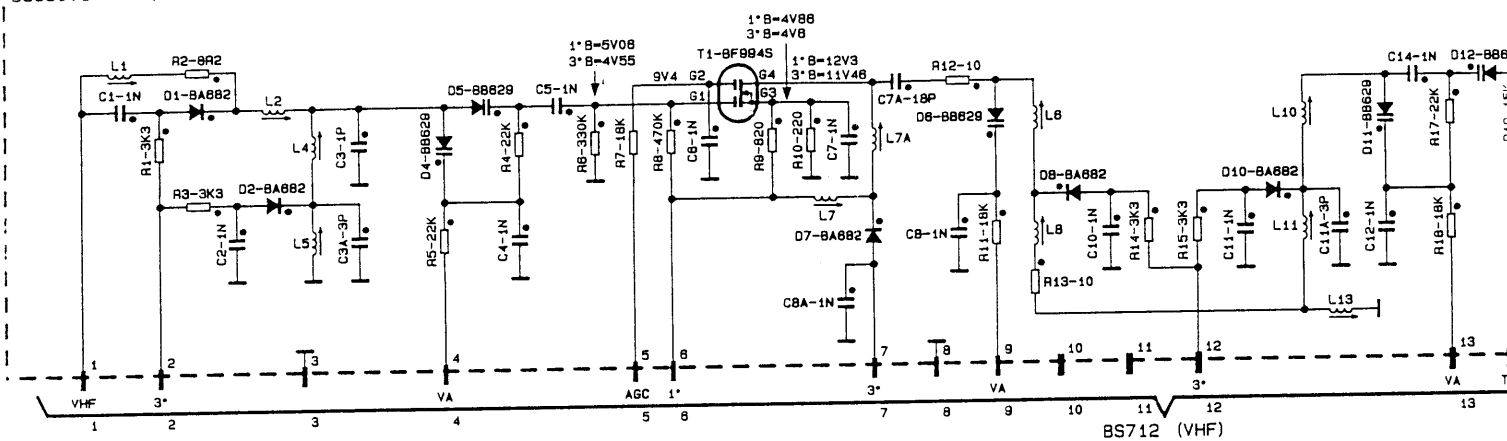
TUNER STD-CATV-STD FIZ-CATV

BS 689 - 690 - 712 - 713

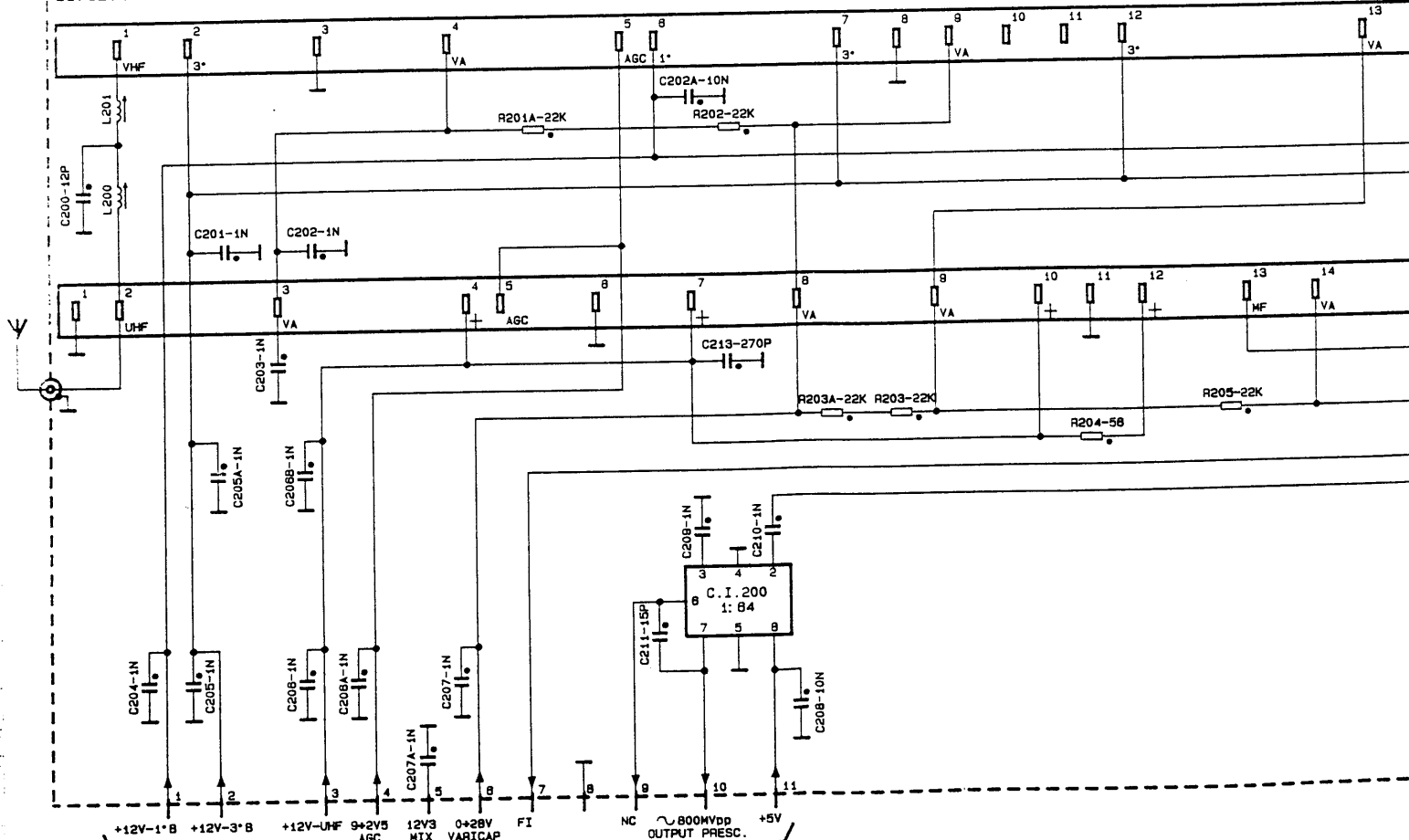
BS713.0 VHF/STD TUNER-STRIP TUNER VHF/STD-STRIP TUNER-STRIP VHF/STD



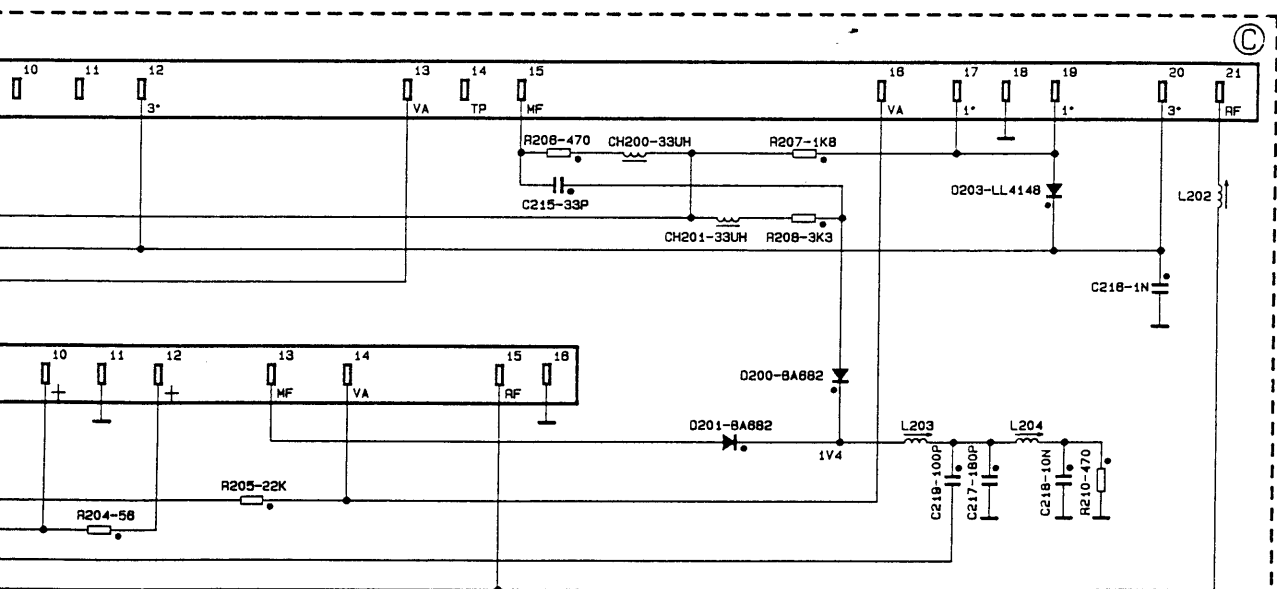
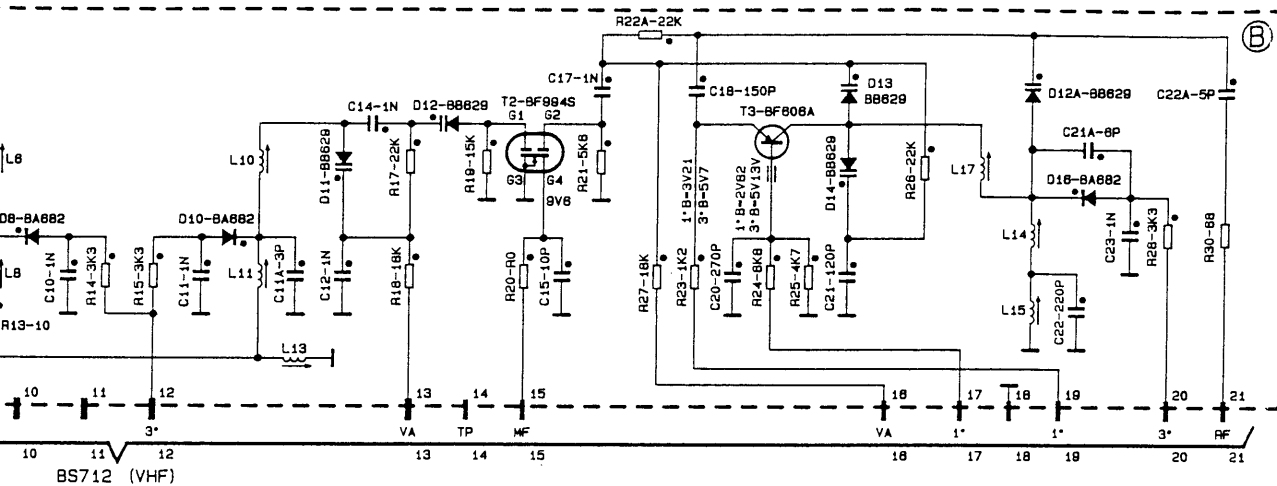
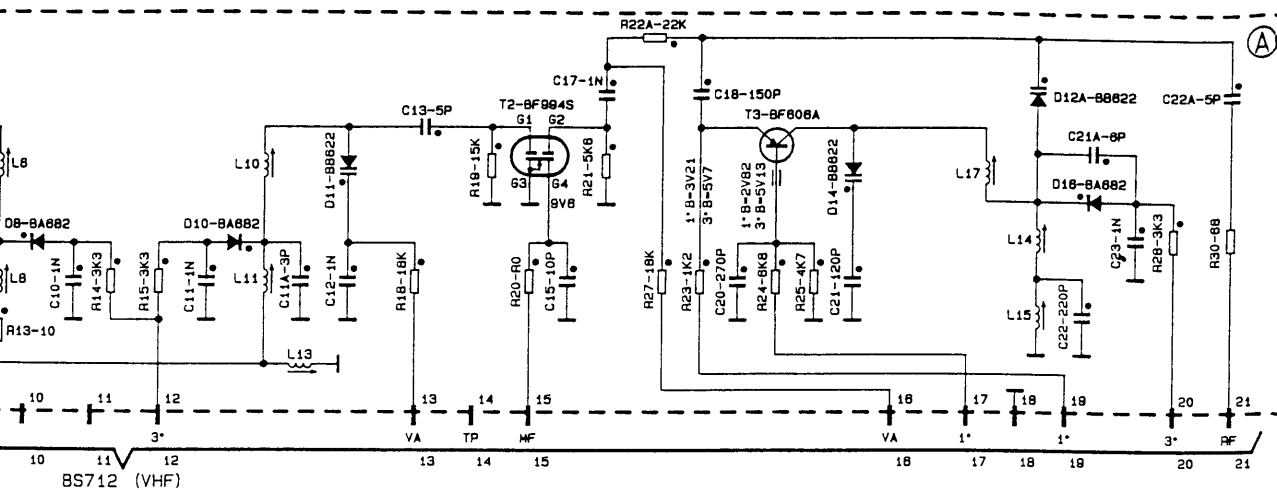
BS690.1 VHF/CATV TUNER-STRIP TUNER VHF/CATV-STRIP TUNER-STRIP VHF/CATV



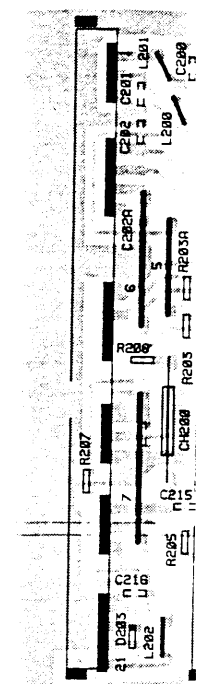
BS712.1 STD TUNER-BASE TUNER GRUNDAUSFÜHRUNG STD TUNER BASE-STD

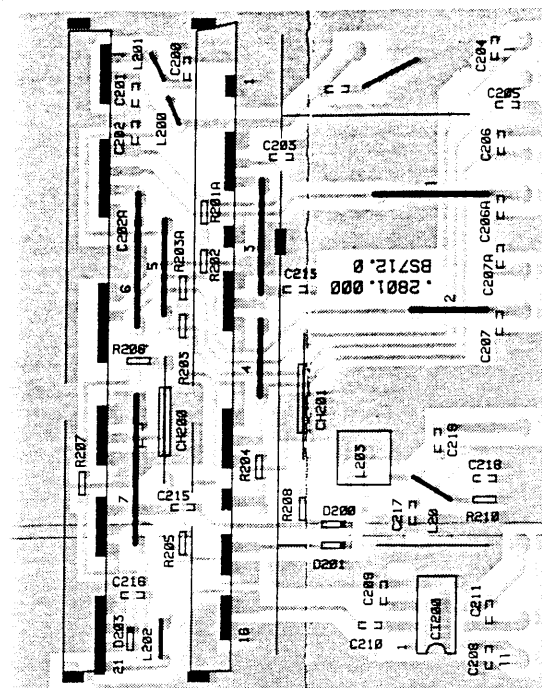
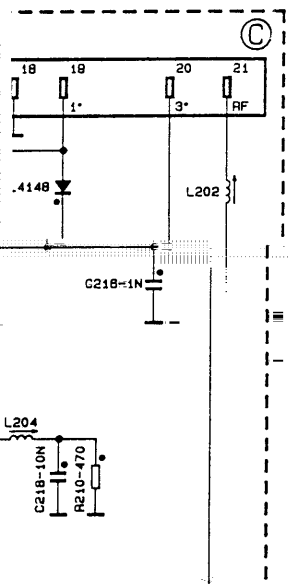
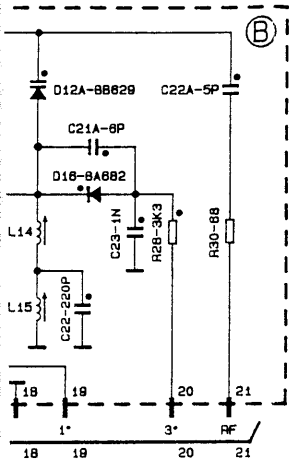
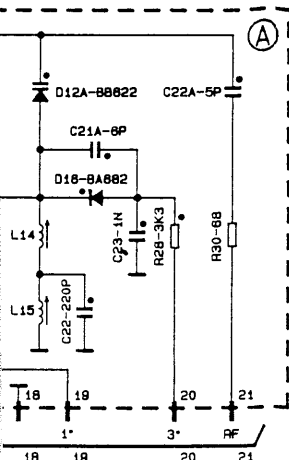


FTZ-CATV FTZ



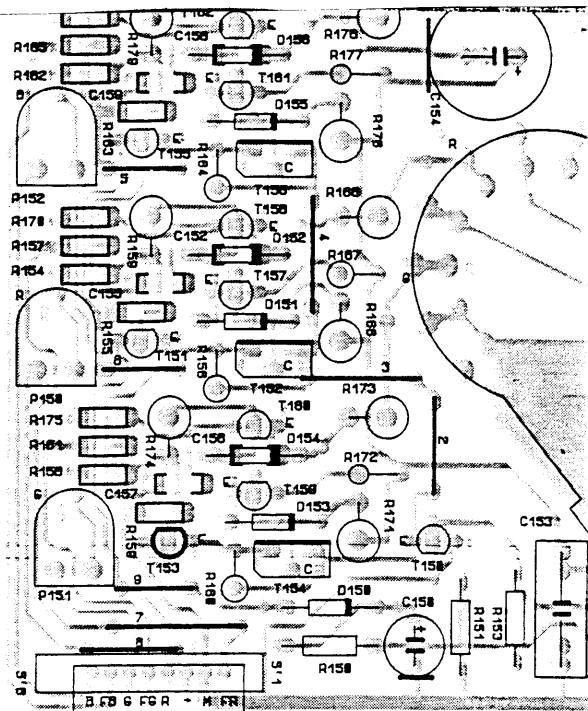
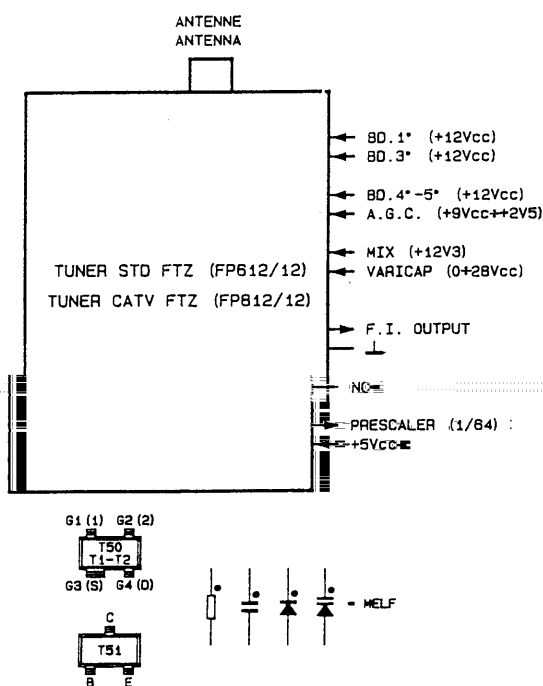
For Service Manuals
MAURITRON SERVICES
 8 Cherry Tree Road, Chinnor
 Oxfordshire, OX9 4QY.
 Tel (01844) 351694
 Fax (01844) 352654
 email: mauritron@dial.pipex.com



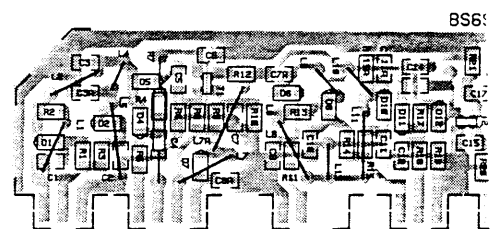


BS 712
TUNER-BASE MODULE
TUNER-GRUNDPLATTE
MODULE TUNER BASE
BASETTA TUNER BASE

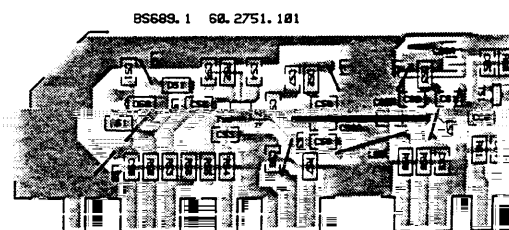
A+D+C=TUNER STD
B+D+C=TUNER CATV



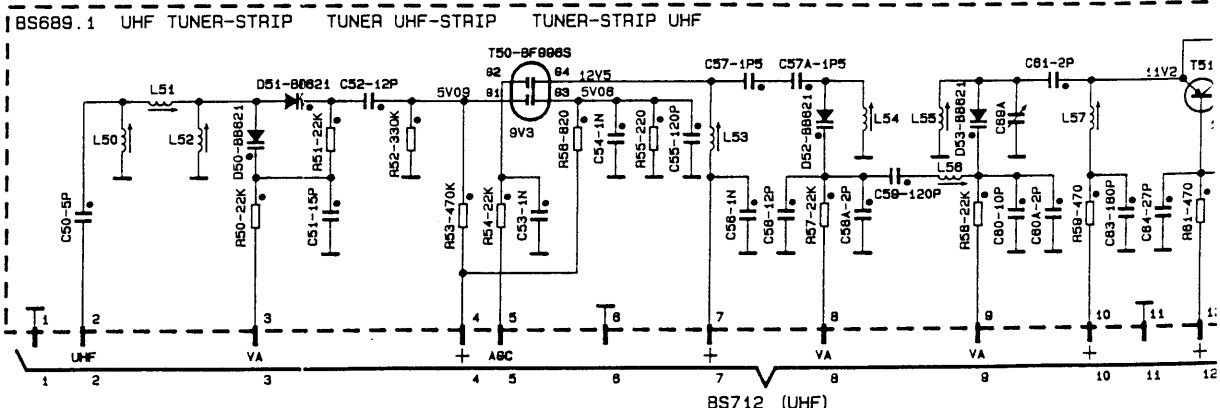
BS 720
PICTURE TUBE PRINTBOARD
BILDROHRENSOCKEL UND F
MODULE KINESCOPE ET RG
BASETTA CINESCOPIO & FIN



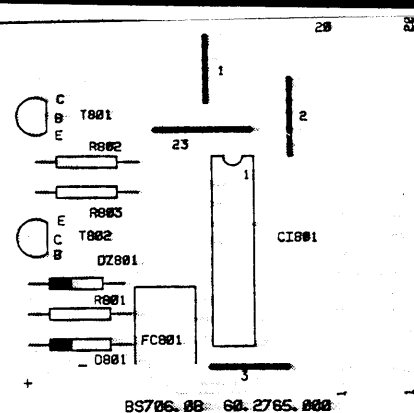
BS 690
VHF/CATV TUBER-STRIP MOD
TUNERPLATTE VHF/CATV-STF
MODULE TUBER-STRIP VHF/C
BASETTA TUNER-STRIP VHF/C



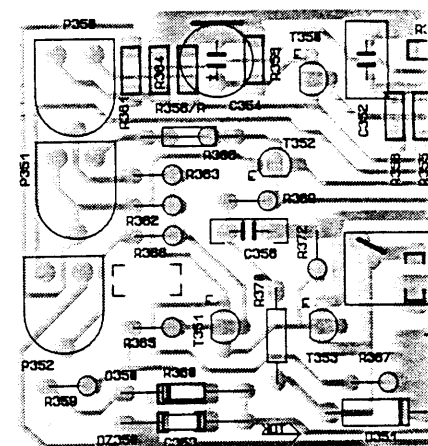
BS 689
UHF TUNER-STRIP MODULE
TUNERPLATTE UHF-STRIP
MODULE TUNER-STRIP UHF
BASETTA TUNER-STRIP UHF



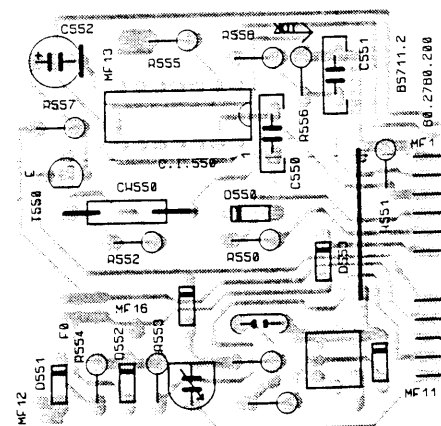
BS712 (UHF)



PICTURE TUBE PRINTBOARD & RGB/OUTPUTS
BILDROHRENSOCKEL UND RGB ENDSTUFEN
MODULE KINESCOPE ET RGB FINAL
BASETTA CINESCOPIO & FINALI RGB

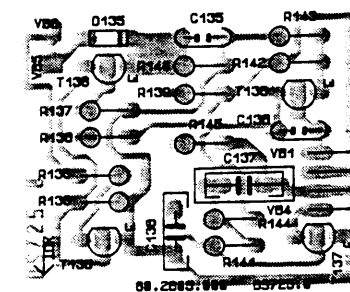


EAST/WEST MODULATOR
OST-WEST MODULATOR
MODULE MODULATEUR
BASETTA MODULATORE

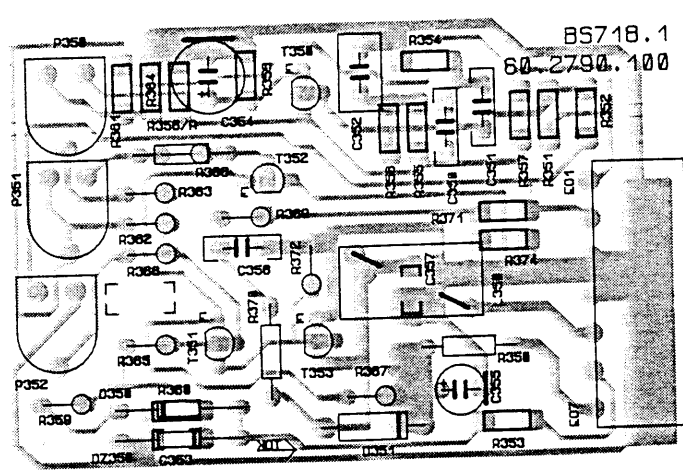
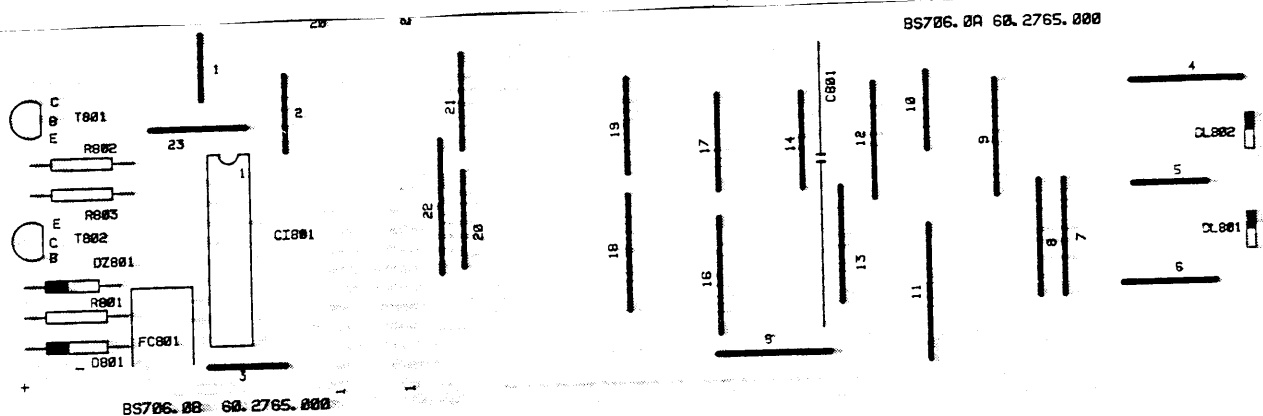
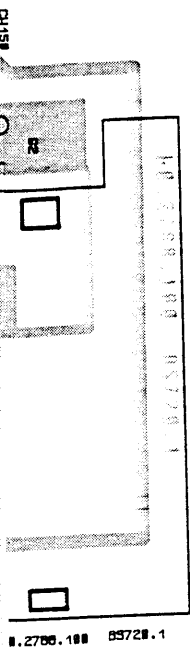


UHF TUNER-STRIP MODULE
TUNERPLATTE UHF-STRIP
MODULE TUNER-STRIP UHF
BASETTA TUNER-STRIP UHF

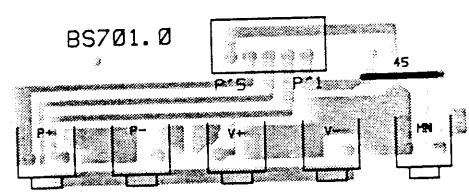
MF INTEGRATION MODUL
ZF-ERGÄNZUNGSPLATTE
MODULE INTÉGRATION M
BASETTA INTEGRAZIONE



VERTICALE BLANKING MODULE
 VERTIKAL AUSTASTUNGSLATTE
 MODULE EFFACEMENT VERTICALE
 BASETTA SPEGNIMENTO VERTICALE

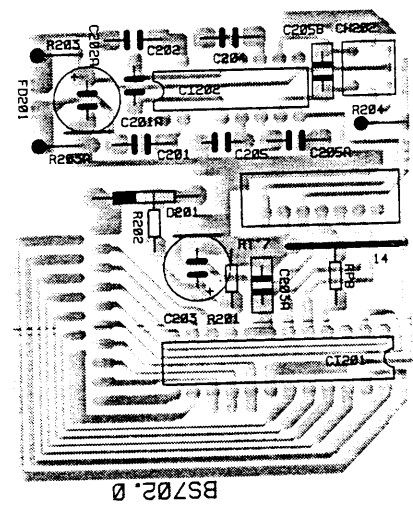
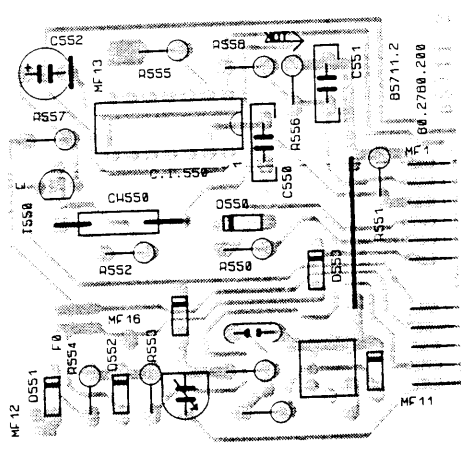


BS 706.A/B
 REMOTE CONTROL TRANSMITTER
 FERNBEDIENUNG
 TRANSMETTEUR TELECOMANDE
 TRASMETTITORE TELECOMANDO



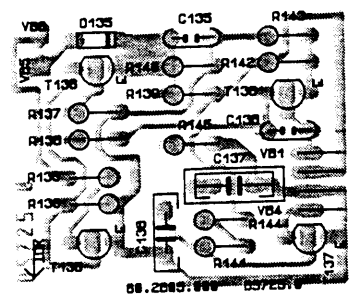
BS 701
 CONTROL MODULE
 BEDIENUNGSELEMENTE
 MODULE CONTRÔLE
 BASETTA COMANDI

BS 718
 EAST/WEST MODULATOR PRINTBOARD
 OST-WEST MODULATOR
 MODULE MODULEUR EST/WEST
 BASETTA MODULATORE EST/OVEST

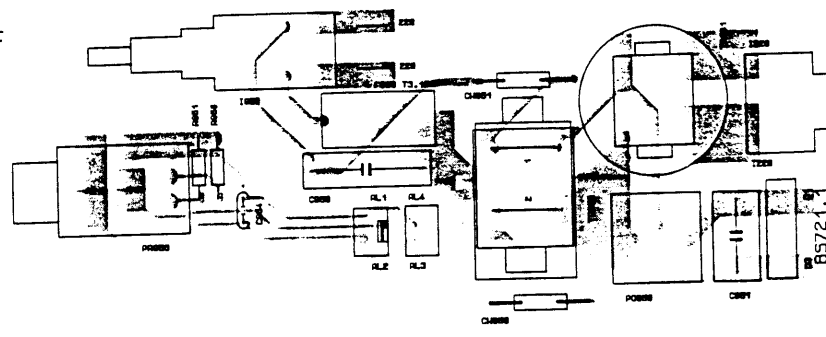


BS 702
 DISPLAY DRIVER MODULE
 LEUCHTANZEIGE-STEUERPLATTE
 MODULE PILOTAGE DISPLAY
 BASETTA PILOTA DISPLAY

BS 711
 MF INTEGRATION MODULE
 ZF-ERGÄNZUNGSPLATTE
 MODULE INTÉGRATION MF
 BASETTA INTEGRAZIONE MF

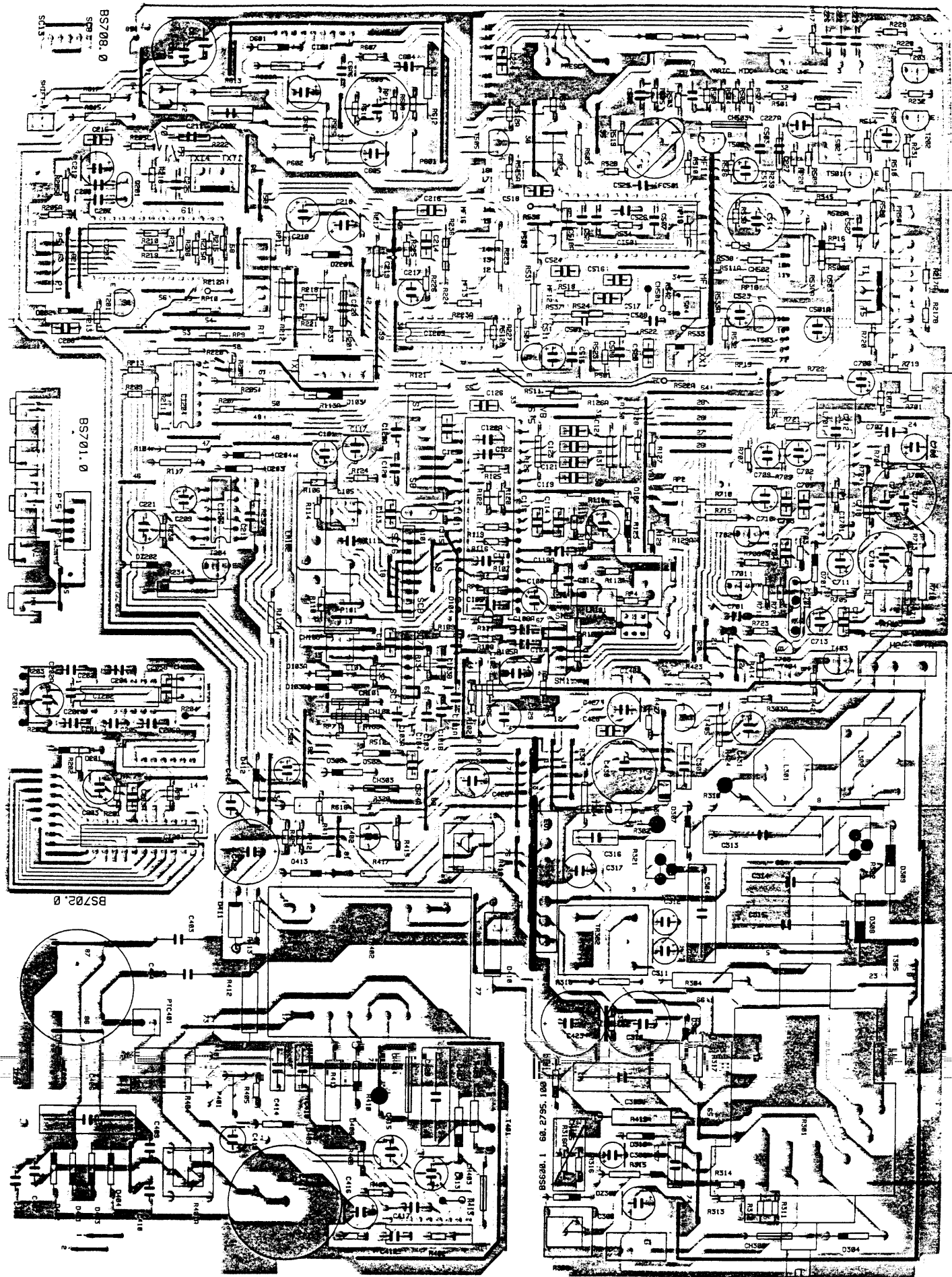


BS 725
 VERTICAL BLANKING MODULE
 VERTIKAL AUSTASTUNGSLATTE
 MODULE EFFACEMENT VERTICALE
 BASETTA SPEGNIMENTO VERTICALE



BS 721
 SWITCH HEADPHONE SOCKET MODULE
 SCHALTER UND STECKBUCHSE PRINT PLATT
 MODULE INTERRUPTEUR + PRISE
 BASETTA INTERRUPTORE + PRESA





CHASSIS
CHASSIS
CHÂSSIS
TELAIO

BS 800.1

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